



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:

Example: http://oops.linkeddata.es/example/swc_2009-05-09.rdf

Scanner by URI

Scanner by direct input:

```
<owl:inverseOf
rdf:resource="http://www.semanticweb.org/ds/ontologies/2020/0/assigament_BigOin
nionTomato#isClimateConditionOf"/>
<rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
<rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#AsymmetricProperty"/>
<rdf:type
rdf:resource="http://www.w3.org/2002/07/owl#IrreflexiveProperty"/>
<rdfs:domain
```

Scanner by RDF

☐ Uncheck this checkbox if you don't want us to keep a copy of your ontology.

[Go to advanced evaluation](#)

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** 🛑 : 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.	122 cases Minor 🟡
Results for P10: Missing disjointness.	ontology* Important ⚠️
Results for P11: Missing domain or range in properties.	2 cases Important ⚠️
Object and/or datatype properties without domain or range (or none of them) are included in the ontology.	
<ul style="list-style-type: none">• This pitfall appears in the following elements:<ul style="list-style-type: none">> http://www.semanticweb.org/ds/ontologies/2020/0/assigament_BigOinionTomato#isPestOf> http://www.semanticweb.org/ds/ontologies/2020/0/assigament_BigOinionTomato#hasAmountSeedFertilizer	

- Want to help?
- [Suggest new pitfalls](#)
 - [Provide feedback](#)

- Documentation:
- [Pitfall catalogue](#)
 - [User guide](#)
 - [Technical report](#)

- Related papers:
- [IJSWIS 2014](#)
 - [EKAW 2012](#)
 - [ESWC 2012 Demo](#)

- **Tip:** Solving this pitfall may lead to new results for other pitfalls and suggestions. We encourage you to solve all cases when needed and see what else you can get from OOPS!

Results for P13: Inverse relationships not explicitly declared.	2 cases Minor 🟡
Results for P22: Using different naming conventions in the ontology.	ontology* Minor 🟡
Results for P41: No license declared.	ontology* Important 🟠

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



```
<p>
<a href="http://oops.linkeddata.es"></a>
</p>
```

References:

- [1] Aguado-De Cea, G., Montiel-Ponsoda, E., Poveda-Villalón, M., and Giraldo-Pasmin, O.X. (2015). Lexicalizing Ontologies: The issues behind the labels. In Multimodal communication in the 21st century: Professional and academic challenges. 33rd Conference of the Spanish Association of Applied Linguistics (AESLA), XXXIII AESLA.
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- [3] Gómez-Pérez, A. (1999). Evaluation of Taxonomic Knowledge in Ontologies and Knowledge Bases. Proceedings of the Banff Knowledge Acquisition for Knowledge-Based Systems Workshop. Alberta, Canada.
- [4] Montiel-Ponsoda, E., Vila Suero, D., Villazón-Terrazas, B., Dunsire, G., Escolano Rodríguez, E., Gómez-Pérez, A. (2011). Style guidelines for naming and labeling ontologies in the multilingual web.
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- [7] Rector, A., Drummond, N., Horridge, M., Rogers, J., Knublauch, H., Stevens, R., Wang, H., and Wroe, C. (2004). Owl pizzas: Practical experience of teaching owl-dl: Common errors & common patterns. In Engineering Knowledge in the Age of the Semantic Web, pages 63-81. Springer.
- [8] Hogan, A., Harth, A., Passant, A., Decker, S., and Polleres, A. (2010). Weaving the pedantic web. In Proceedings of the WWW2010 Workshop on Linked Data on the Web, LDOW 2010, Raleigh, USA, April 27, 2010.
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- [12] Vatan, B. (2012). Is your linked data vocabulary 5-star?. http://bvatan.blogspot.fr/2012/02/is-your-linked-data-vocabulary-5-star_9588.html

- [Ontoqual 2010](#)
- [CAEPIA 2009](#)

Web services:

- [REST Web Service](#)

Developed by:



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How to cite OOPS!

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BibTex:

```
@article{poveda2014oops,  
  title={OOPS! (Ontology Pitfall Scanner!): An On-line Tool for Ontology Evaluation}},  
  author={Poveda-Villalón, María and Gómez-Pérez, Asunción and Suárez-Figueroa, Mari Carmen},  
  journal={International Journal on Semantic Web and Information Systems (IJSWIS)},  
  volume={10},  
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  pages={7--34},  
  year={2014},  
  publisher={IGI Global}  
}
```

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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