

Evaluation results

There are three levels of importance in pitfalls according to their impact on the ontology:

- **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.

Pitfalls detected:

Results for P05: Defining wrong inverse relationships. 1 case

1 case

Critical

Two relationships are defined as inverse relations when they are not necessarily inverse.

- This pitfall appears in the following elements:

> <http://example.org/theatreontology#isLocationOf> may not be inverse of <http://example.org/theatreontology#hasLocation>

Results for P10: Missing disjointness.

Ontology*

Important

The ontology lacks disjoint axioms between classes or between properties that should be defined as disjoint. This pitfall is related with the guidelines provided in [6], [2] and [7].

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

Results for P13: Inverse relationships not explicitly declared.

17 cases

Minor

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://example.org/theatreontology#reviewedBy>

> <http://example.org/theatreontology#inProduction>

> <http://example.org/theatreontology#wasWrittenDuring>

> <http://example.org/theatreontology#takesPlaceIn>

- > <http://example.org/theatreontology#member>
- > <http://example.org/theatreontology#assignedRole>
- > <http://example.org/theatreontology#ensemble>
- > <http://example.org/theatreontology#hasReview>
- > <http://example.org/theatreontology#during>
- > <http://example.org/theatreontology#assignedPerson>
- > <http://example.org/theatreontology#takesPlaceDuring>
- > <http://example.org/theatreontology#isLocatedIn>
- > <http://example.org/theatreontology#featuresPlay>
- > <http://example.org/theatreontology#featuresProduction>
- > <http://example.org/theatreontology#locatedIn>
- > <http://example.org/theatreontology#hasPremiere>
- > <http://example.org/theatreontology#performedAt>

Results for P19: Defining multiple domains or ranges in properties.

4 cases

Critical

The domain or range (or both) of a property (relationships and attributes) is defined by stating more than one `rdfs:domain` or `rdfs:range` statements. In OWL multiple `rdfs:domain` or `rdfs:range` axioms are allowed, but they are interpreted as conjunction, being, therefore, equivalent to the construct `owl:intersectionOf`. This pitfall is related to the common error that appears when `rdfs:range` statements. In OWL multiple `rdfs:domain` or `rdfs:range` axioms are allowed, but they are interpreted as conjunction, being, therefore, equivalent to the construct `owl:intersectionOf`. This pitfall is related to the common error that appears when defining domains and ranges described in [7].

- This pitfall appears in the following elements:
 - > <http://example.org/theatreontology#during>
 - > <http://example.org/theatreontology#hasLocation>
 - > <http://example.org/theatreontology#hasStartDate>
 - > <http://example.org/theatreontology#hasEndDate>

Results for P36: URI contains file extension.

Ontology*

Minor

This pitfall occurs if file extensions such as ".owl", ".rdf", ".ttl", ".n3" and ".rdxml" are included in an ontology URI. This pitfall is related with the recommendations provided in [9].

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

Suggestions or warnings:

SUGGESTION: symmetric or transitive object properties| 1 case



According to the highest importance level of pitfalls found in your ontology the conformance badge suggested is "Critical 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). | ✓ |
| [2] Noy, N. F., McGuinness, D. L., et al. (2001). | ✓ |
| [3] Gómez-Pérez, A. (1999). | ✓ |
| [4] Montiel-Ponsoda, E., Vila Suero, D., Villazón-Terrazas, B., Dunsire, G., Escolano Rodríguez, E., Gómez-Pérez, A. (2011). | ✓ |
| [5] Vrandečić, D. (2010). | ✓ |
| [6] Gómez-Pérez, A. (2004). | ✓ |
| [7] Rector, A., Drummond, N., Horridge, M., Rogers, J., Knublauch, H., Stevens, R., Wang, H., and Wroe, C. (2004). | ✓ |
| [8] Hogan, A., Harth, A., Passant, A., Decker, S., and Polleres, A. (2010). | ✓ |
| [9] Archer, P., Goedertier, S., and Loutas, N. (2012). | ✓ |

[10] Bernes-Lee Tim. (2006).



[11] Heath, T. and Bizer, C. (2011).



[12] Vatan, B. (2012).



Enter your ontology to scan:

Enter a URI:

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

Enter a direct input:

If you include just RDF code, the following Pitfalls will not be checked:

P36. URI contains file extension

P37. Ontology not available

P40. Namespace hijacking

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

Scan

[Privacy Statement](#)

How to cite OOPS!

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