

Jan 05, 2026

Open Source Semantic Web Ontology (OSSWO)

DOI

<https://dx.doi.org/10.17504/protocols.io.4r3l2z43jl1y/v1>



Felipe Ribeiro¹

¹World Wide Web Consortium (W3C) Credible Web, UNESCO ITU WSIS, Creative Commons (CC) Open Education Platform, Wikipedagogy

Felipe Ribeiro



Felipe Ribeiro

Interfaith Peacemakers

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.4r3l2z43jl1y/v1>

Protocol Citation: Felipe Ribeiro 2026. Open Source Semantic Web Ontology (OSSWO). protocols.io
<https://dx.doi.org/10.17504/protocols.io.4r3l2z43jl1y/v1>



Manuscript citation:

<https://doi.org/10.5281/zenodo.18136048>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: January 03, 2026

Last Modified: January 05, 2026

Protocol Integer ID: 237019

Keywords: Open Internet Governance, Open Source, Open Information, Semantic Web, Ontology Engineering, osswo, open source semantic web ontology, world wide web, web, interontological alignment methodology, wide web, world, ontology

Disclaimer

Licensed for Nonviolent Nonprofit Open Education Fair Use Under **Creative Commons Attributive Non-Commercial Share-Alike (CC BY-NC-SA) 4.0** along **Ethical Source Do No Harm Hippocratic License 3.0** and **Contributor Covenant** through the **European Union Public License (EUPL) Interoperability Downstream Compatibility** as an **United Nations Education Science Culture Organization (UNESCO) 2019 Recommendation** compliant **Open Educational Resources (OER)**.

Abstract

Open Source Semantic Web Ontology (OSSWO) is an interontological alignment methodology based on the world wide web (WWW) internet infrastructure open standards.

Guidelines

Follow each step under the local and international rule of law (RoL).

Materials

A legalized community in need of a semantic web ontology.



Safety warnings

⚠ Licensed for Nonviolent Nonprofit Open Education Fair Use Under **Creative Commons Attributive Non-Commercial Share-Alike (CC BY-NC-SA) 4.0** along **Ethical Source Do No Harm Hippocratic License 3.0** and **Contributor Covenant** through the **European Union Public License (EUPL) Interoperability Downstream Compatibility** as an **United Nations Education Science Culture Organization (UNESCO) 2019 Recommendation** compliant **Open Educational Resources (OER)**.

Ethics statement

Licensed for Nonviolent Nonprofit Open Education Fair Use Under **Creative Commons Attributive Non-Commercial Share-Alike (CC BY-NC-SA) 4.0** along **Ethical Source Do No Harm Hippocratic License 3.0** and **Contributor Covenant** through the **European Union Public License (EUPL) Interoperability Downstream Compatibility** as an **United Nations Education Science Culture Organization (UNESCO) 2019 Recommendation** compliant **Open Educational Resources (OER)**.



Open Source Compliance

- 1 Read the '**Open Source Semantic Web Ontology (OSSWO)**' whitepaper.
https://www.academia.edu/145734647/Open_Source_Semantic_Web_Ontology_OSSWO
- 2 Establish your **open internet** and **open source culture** requests. My two ontologies on the theme may be of assistance:
https://www.academia.edu/143169562/Open_Internet
https://www.academia.edu/130285565/Open_Source_Culture
- 3 Define **open ethics** principles to be the rule of law (RoL) regulatory compliance standards of the ontology.
https://en.wikipedia.org/wiki/Virtue_ethics
https://en.wikipedia.org/wiki/Rule_of_law
https://en.wikipedia.org/wiki/Regulatory_compliance

Protocol



NAME

Open Ethics Compliance (OEC)

CREATED BY

Felipe Ribeiro

Preview

- 4 Decide the **open license** and **ethical license** of the ontology.
https://en.wikipedia.org/wiki/Open_license
<https://ethicsource.dev>



Protocol



NAME

Nonviolent Nonprofit Open Education License (NNOEL)

CREATED BY

Felipe Ribeiro

[Preview](#)

- 5 Structure **open science** methodological dependencies requirements of the ontology engineering procedure.

https://en.wikipedia.org/wiki/Open_sciencehttps://en.wikipedia.org/wiki/Scientific_method<https://en.wikipedia.org/wiki/Dependency>https://en.wikipedia.org/wiki/Ontology_engineering

Protocol



NAME

Rule of Law Open Science (RoLOS)

CREATED BY

Felipe Ribeiro

[Preview](#)

- 6 Research the **open education** and open pedagogy requirements for the ontology.

https://www.academia.edu/130285533/Rule_of_Law_Open_Education_RoLOE<https://www.academia.edu/130285459/Wikipedagogy>

Protocol



NAME

Wikipedagogy

CREATED BY

Felipe Ribeiro

[Preview](#)

Semantic Web Formatting

- 7 Understand the internet world wide web (WWW) governance structure, including at least:
 - Internet Governance Forum (IGF).
 - Internet Architecture Board (IAB).
 - Internet Engineering Task Force (IETF) Internet Engineering Steering Group (IESG).
 - Internet Research Task Force (IRTF).
 - World Wide Web Consortium (W3C).
 - International Internet Preservation Consortium (IIPC).
 - Internet Society (ISoc).
 - World Wide Web (WWW).
- 8 Learn how to format your open data under the world wide web (WWW) standards:
 - Open standards.
 - Web Content Accessibility Guidelines (WCAG).
 - Rule Interchange Format (RIF).
 - Uniform Resources Identification (URI).
 - Extensible Markup Language (XML).
 - Linked Open Data (LOD).
 - Linked Open Vocabularies (LOV).
 - Resources escription Framework (RDF).
 - RDF N-Triples (NT).
 - RDF Schema (RDFS).
 - XML Schema Definition (XSD).
 - Triples Serialization in XML (TriX).
- 9 Define your semantic web approach through:
 - Web engineering.
 - Web resource.



- Web science.
- Semantic web.
- Semantic heterogeneity.
- Semantic computing.
- Semantic technology.
- Semantic decision table.
- Semantic integration.
- Semantic matching.
- Semantic unification.
- Semantic interoperability.

- 10 Understand how to propose an open standard working draft to the World Wide Web Consortium (W3C):
- Internet Standard (STD) Request for Comment (RfC).
 - Best Current Practice.
 - Internet Experiment Note.
 - World Wide Web Consortium (W3C) work group creation.
 - World Wide Web Consortium (W3C) web standards publication process.

Ontology Engineering

- 11 Learn on how to startup the ontology engineering task force:
- Ontology-based reasoning.
 - Ontology engineering.
 - Ontology components.
 - Reliability engineering.
 - Secure operational development (DevSecOps).
- 12 Comprehend ontology alignment.
- Interontological alignment.
 - Ontology-based reasoning.
 - Ontology components.
 - Ontology engineering.
 - Upper ontologies.
 - Domain ontologies.
 - Interontologies.
- 13 Research ontological databases for ontologies related to your field of development.
- Ontology-Driven Data Documentation for Industry Commons (OntoCommons).
 - Open Biological and Biomedical Ontology (OBO).
 - Research Data Alliance (RDA).
 - Open Data Initiative (ODI).



- 14 Set a library information science (LIS) rating system:
 - Library information science (LIS).
 - Library classification.
 - Diagramflow chart.
 - Data model.
 - Rating system digital badges credentialing certification hierarchization.
- 15 Develop the ontological controlled vocabulary:
 - Unstructured data data cleansing.
 - Texts corpora corpus linguistics.
 - Controlled vocabulary.