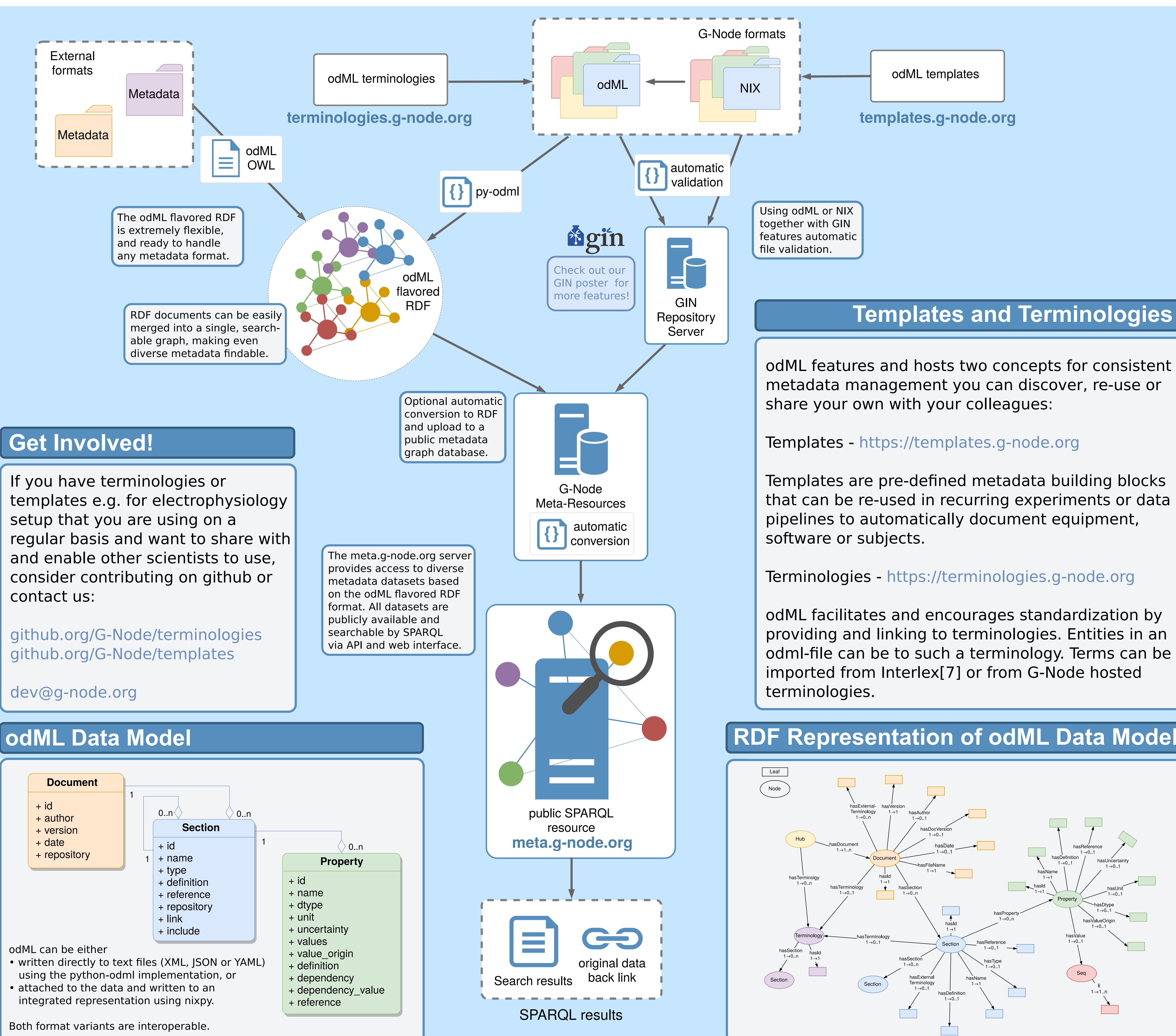


Overview

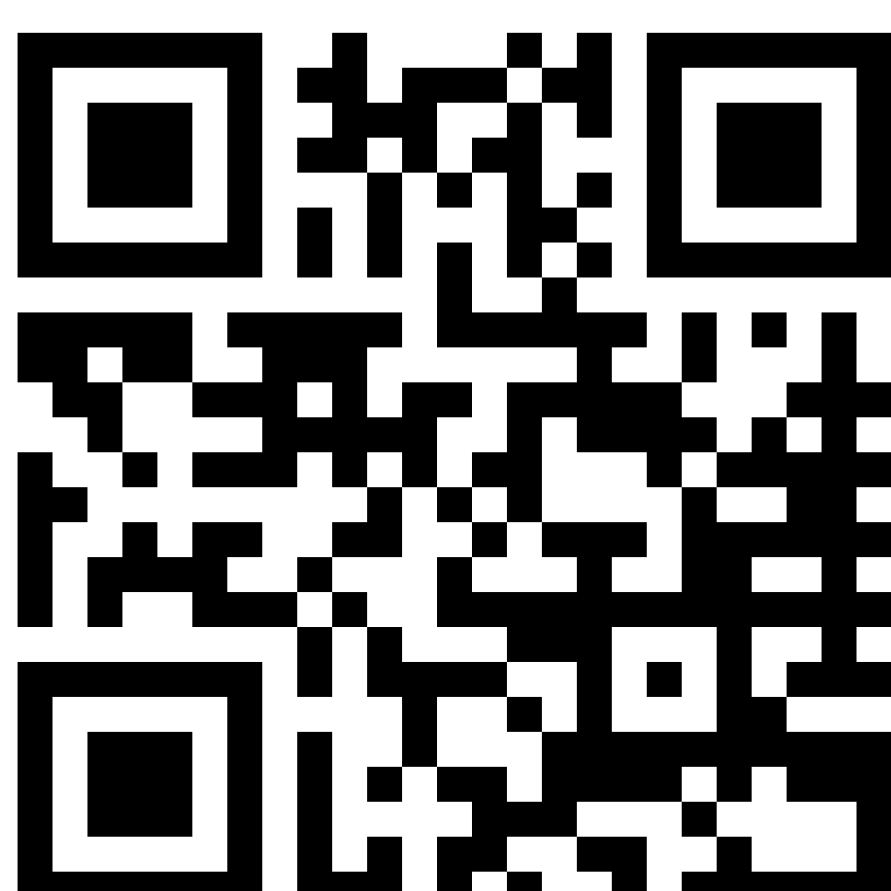
Annotation of research data with metadata is crucial to provide context for analysis and re-use. The odML[1] format (RRID:SCR_001376) offers a flexible and comprehensive solution for the scientist to collect and organize metadata in a structured form that is both human readable and machine actionable[2] for documentation and automated analysis. To further support the FAIR principles[3], we present tools to export metadata from odML to RDF[4], which opens metadata up to semantic web services. The G-Node SPARQL server[5] is aimed at providing searchable whole metadata sets for meta analyses and also providing links to the actual published scientific data set.

Scientists can upload their metadata to make their data findable and accessible even if it was a data publication or if it is an unpublished data set. Furthermore, the GIN[6] data hosting service (RRID:SCR_015864) provides an opt-in feature to automatically update the metadata service when changes to a dataset occur, to ensure the metadata is always up-to-date.

Finally with a metadata resource service the G-Node hosts a platform providing terminologies and templates for metadata annotation. It presents a forum for general feedback, usage discussions and exchange of metadata templates with the scientific community.



Resources and References



References

- References
- [1] Grewe et al (2011);
doi:10.3389/fninf.2011.00016
 - [2] Zehl et al (2016);
doi:10.3389/fninf.2016.00026
 - [3] Wilkinson et al (2016);
doi:10.1038/sdata.2016.18
 - [4] <https://www.w3.org/RDF/>
 - [5] <https://meta.g-node.org>
 - [6] <https://gin.g-node.org>
 - [7] <https://neuinfo.org/interlex/dashboard>

Find out more about G-Node projects at

<https://g-node.github.io>
<https://templates.g-node.org/>
<https://terminologies.g-node.org/>
<https://meta.g-node.org>
<https://github.com/G-Node/python-odml>
<https://github.com/G-Node/nixpy>

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