Summary

The SEND and SDTM implementation guides (IGs) are fact-dense documents which can be time consuming to navigate, and intimidating to all but frequent readers.

A web site was developed, to allow rapid browsing and searching of the IG domains.

This new tool serves the dual purpose of being immediately useful to SEND and SDTM implementers and is a practical example of the use of RDFs.

Methods

The PhUSE/CSS Emerging Technologies group created a Semantic data model/Resource Description Framework (RDF) of the IGs and their underlying data models. These are available in OWL and TTL format from:

https://github.com/phuse-org/rdf/cdisc.org

CDSIC together with NCI make available the CDISC SEND and CDSIC SDTM Controlled Terminology in RDF OWL format from:

http://evs.nci.nih.gov/ftp1/CDISC/SEND/

A Java servlet based program combines these into an easy to use, publicly accessible web site.

Conclusions and Recommendations

This web site was relatively easy to create, taking advantage of standard libraries that read the RDF data in OWL and TTL format. This web site allows SEND and SDTM implementers a quick way of finding needed information in the standards. This is just one example of usage of these models.

The benefit of the implementation guides and controlled terminologies being available in RDF format is that they are open, easy to search and may provide rapid access to the contents of these documents. RDF OWL format from:

https://jena.apache.org/).

These tools could make this easier. One benefit of the implementation guides and controlled terminologies being available in RDF format is that they are open, easy to search and may provide rapid access to the contents of these documents.

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