Background Resources

The VIVO Project uses a collection of technologies. You may find the materials here helpful in learning more about technologies used by VIVO.

- RMLMapper – presented at the 2019 VIVO Conference, RMLMapper is a tool for defining maps from data sources to RDF.
- robot – robot is a command-line Java-based tool of the OBO Foundry for manipulating RDF files and developing ontologies. robot includes a reasoner, a template capability, validation, merge and other ontology tools. The VIVO ontology interest group uses robot to develop ontologies. The Language Ontology was developed using robot.
- SHACL – W3c Standard Shapes Constraint Language, a standard for specifying constraints on graph data using RDF.
- Fuseki - Jena project free-standing SPARQL end-point. . Loading VIVO triples into a Fuseki end-point can provide in-memory SPARQL query at high speed.

- Development Guides
- FreeMarker
- Git and GitHub
- JFact Reasoner
- Issues tracking
- Karma for Data Ingestion
- Maven
- MySQL
- Ontology Resources
- Semantic Web resources
- SPARQL Resources
- Tomcat
- Vitro
- Zenodo Community Collection