

Helmholtz Digitization Ontology (HDO): harmonized descriptions of digital assets and processes to support the integrity of the Helmholtz digital ecosystem

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HMC develops the “Helmholtz Digitization Ontology” (HDO), which contains machine-actionable descriptions of digital assets and data handling processes relevant to the Helmholtz digital ecosystem. With harmonized and carefully curated semantics, we intended to serve as an HGF institutional reference for the understanding of these concepts.

vocabulary

consolidation of terms

~ 150 key terms gathered, definitions consolidated & enriched with rich annotations
full provenance & all contributions available

implementation

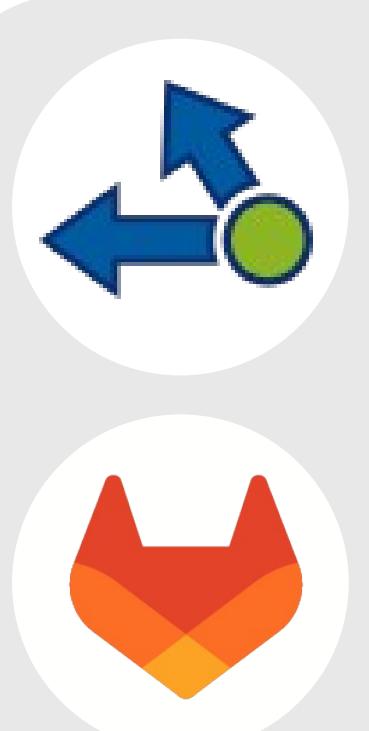
population of OWL

establish class hierarchies & relations.
revise relations & definitions
generate comprehensive documentation

release & development

release & promotion

promote as HGF wide standard
scientific publication
engage stakeholders
revise & extend vocabulary with direct input from community where needed



https://purls.helmholtz-metadaten.de/hob/HDO_00000000

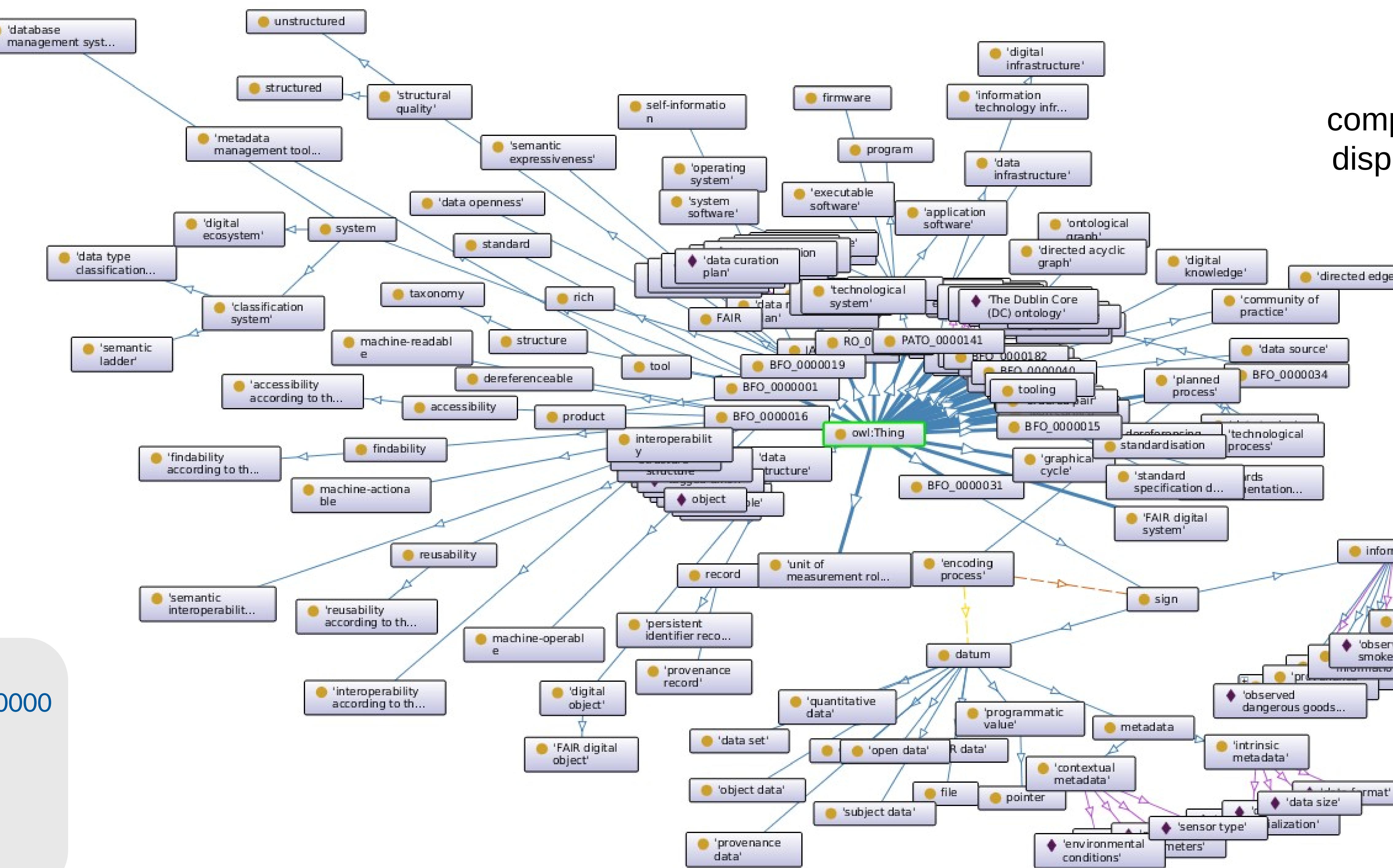
<https://gitlab.hzdr.de/hmc/hmc-public/hob/hdo>

Goals

1. Semantic harmonization within HMC
2. create a machine actionable semantic artifact
3. Easy-to-understand definitions for HMC Glossary
4. engage & support internal & external use

current artifact status

main classes and hierarchical relationships



modelling the FAIR principles
as a modelling choice the single components of FAIR were modeled as dispositions instead of data properties

