

# Vocabularies and Well-known Identifiers

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# Sources of Well-known Identifiers

# Open Researcher and Contributor ID (ORCID)

- <https://orcid.org/>
- **Individual people** can register a unique ORCID identifier.
- Scrapes publications from CrossRef and associates them with researchers.
- Provides machine-readable metadata when identifiers are dereferenced.
- Example:

<http://orcid.org/0000-0003-4365-3135>

# Digital Object Identifier (DOI)

- <http://www.doi.org/>
- Consortium for registration of persistent identifiers on digital networks. Commonly used for **publications**.
- In browser, redirects to publisher's site.
- Major provider (CrossRef) provides machine-readable data when identifier is dereferenced.
- Example:

<http://dx.doi.org/10.3233/sw-150203>

# Global Research Identifier Database (GRID)

- <https://www.grid.ac/>
- Assigns persistent identifiers to **institutions**.
- Curated, can report missing institutions or bad data.
- Example:

<http://www.grid.ac/institutes/grid.152326.1>

# Well-known RDF Vocabularies

# World Wide Web Consortium (W3C): general

- <https://www.w3.org/TR/rdf-schema/>
- CURIEs

rdf: = <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

rdfs: = <http://www.w3.org/2000/01/rdf-schema#>

- Some terms:
  - rdf:type (also abbreviated as "a")
  - rdfs:label
  - rdfs:comment
  - rdfs:seeAlso

# Dublin Core (DCMI): publications

- <http://www.dublincore.org/documents/dcmi-terms/>
- CURIEs

dcterms: = <http://purl.org/dc/terms/> (URLs and strings)

dc: = <http://purl.org/dc/elements/1.1/> (strings)

- Some terms:
  - dcterms:date
  - dcterms:created
  - dcterms:modified
  - dcterms:creator
  - dcterms:description
  - dcterms:identifier
  - dcterms:subject
  - dcterms:title



# Friend Of A Friend (FOAF): people

- <http://xmlns.com/foaf/spec/>
- schema.org is a more recent alternative
- CURIE foaf: = <http://xmlns.com/foaf/0.1/>
- Some terms:
  - foaf:Person
  - foaf:Organization
  - foaf:Document
  - foaf:name
  - foaf:depiction
  - foaf:familyName
  - foaf:givenName
  - foaf:based\_near
  - foaf:homepage

# Bibliographic Ontology (BIBO)

- Website currently broken :-(
  - CURIE bibo: = <http://purl.org/ontology/bibo/>
- Some terms:
  - bibo:volume
  - bibo:pageStart
  - bibo:pageEnd

# Global Research Identifier Database Ontology (GRID): research organisations

- <https://www.grid.ac/>
- CURIE grid: = <http://www.grid.ac/ontology/>
- Some terms:
  - grid:establishedYear
  - grid:hasWikidataId
  - grid:wikipediaPage
  - grid:cityName
  - grid:countryCode
  - grid:countryName
  - grid:hasGeonamesCity

# Basic Geo (WGS84 lat/long)

## Vocabulary: geospatial locations

- <https://www.w3.org/2003/01/geo/>
- CURIE geo: = [http://www.w3.org/2003/01/geo/wgs84\\_pos#](http://www.w3.org/2003/01/geo/wgs84_pos#)
- Some terms:
  - geo:lat
  - geo:long
  - geo:alt

# Miscellaneous

- Simple Knowledge Organization System (SKOS)
  - skos:prefLabel
  - skos:altLabel
- Metadata Authority Description Schema in RDF vocabulary
  - madsrdf:hasAffiliation