

IRI:

urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology

Other visualisation:

[Ontology source](#)

## Abstract

dct:title

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## Classes

<a href="#">accessible</a>	<a href="#">accessible metadata</a>	<a href="#">article</a>	<a href="#">authentication authorisation</a>	<a href="#">data set</a>
<a href="#">domain relevant community standards</a>	<a href="#">f a i r vocabulary</a>	<a href="#">findable</a>	<a href="#">globally unique persistent identifier</a>	
<a href="#">interoperable</a>	<a href="#">knowledge representation</a>	<a href="#">provenance</a>	<a href="#">qualified cross reference</a>	<a href="#">reusable</a>
<a href="#">rich accurate relevant metadata</a>	<a href="#">rich metadata</a>	<a href="#">searchable resource</a>		<a href="#">software</a>
<a href="#">standardised communication protocol</a>	<a href="#">universal open free</a>	<a href="#">usage license</a>		

[accessible](#)<sup>c</sup>

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IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Accessible

stored for long term so that they can easily be accessed and/or downloaded with well-defined access conditions, whether at the level of metadata, or at the level of the actual data. Once the user finds the required data, she/he needs to know how can they be accessed, possibly including authentication and authorisation.

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**has super-classes**

[fair](#)<sup>C</sup>

**has sub-classes**

[accessible metadata](#)<sup>C</sup>, [standardised communication protocol](#)<sup>C</sup>

**is in range of**

[should be](#)<sup>op</sup>

**is disjoint with**

[findable](#)<sup>C</sup>, [interoperable](#)<sup>C</sup>, [reusable](#)<sup>C</sup>

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## accessible metadata<sup>C</sup>

[back to ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#AccessibleMetadata

A2: Metadata should be accessible even when the data is no longer available: Datasets tend to degrade or disappear over time because there is a cost to maintaining an online presence for data resources. When this happens, links become invalid and users waste time hunting for data that might no longer be there. Storing the metadata generally is much easier and cheaper. Hence, principle A2 states that metadata should persist even when the data are no longer sustained. A2 is related to the registration and indexing issues described in F4.

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**has super-classes**

[accessible](#)<sup>C</sup>

**is in domain of**

[retrievable by](#)<sup>op</sup>, [using](#)<sup>op</sup>

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## article<sup>C</sup>

[back to ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Article

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**has super-classes**

[digital resource](#)<sup>C</sup>

**is disjoint with**

[data set](#)<sup>c</sup>, [software](#)<sup>c</sup>

## authentication authorisation<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#AuthenticationAuthorisation

A1.2: The protocol allows for an authentication and authorisation where necessary. The 'A' in FAIR does not necessarily mean 'open' or 'free'. Rather, it implies that one should provide the exact conditions under which the data are accessible. Hence, even heavily protected and private data can be FAIR.

### has super-classes

[standardised communication protocol](#)<sup>c</sup>

### has members

[authentication](#)<sup>ni</sup>, [authorisation](#)<sup>ni</sup>

## data set<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#DataSet

### has super-classes

[digital resource](#)<sup>c</sup>

### is disjoint with

[article](#)<sup>c</sup>, [software](#)<sup>c</sup>

## domain relevant community standards<sup>c</sup>

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**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Domain-relevantCommunityStandards

R1.3: (Meta)data meet domain-relevant community standards

It is easier to reuse data sets if they are similar: same type of data, data organised in a standardised way, well-established and sustainable file formats, documentation (metadata) following a common template and using common vocabulary. If community standards or best practices for data archiving and sharing exist, they should be followed. For instance, many communities have minimal information standards (e.g., MIAME, MIAPE). FAIR data should at least meet those standards. Other community standards may be less formal, but nevertheless, publishing (meta)data in a manner that increases its

use(ability) for the community is the primary objective of FAIRness. In some situations, a submitter may have valid and specified reasons to divert from the standard good practice for the type of data to be submitted. This should be addressed in the metadata. Note that quality issues are not addressed by the FAIR principles. The data's reliability lies in the eye of the beholder and depends on the intended application.

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**has super-classes**

[rich accurate relevant metadata](#)<sup>C</sup>

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## fair vocabulary<sup>C</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#FAIRVocabulary

I2: (Meta)data use vocabularies that follow the FAIR principles The controlled vocabulary used to describe datasets needs to be documented and resolvable using globally unique and persistent identifiers. This documentation needs to be easily findable and accessible by anyone who uses the dataset.

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**has super-classes**

[interoperable](#)<sup>C</sup>

---

## findable<sup>C</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Findable

Metadata and data should be easy to find for both humans and computers. Machine-readable metadata are essential for automatic discovery of datasets and services, so this is an essential component of the FAIRification process.

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**has super-classes**

[fair](#)<sup>C</sup>

**has sub-classes**

[globally unique persistent identifier](#)<sup>C</sup>, [rich metadata](#)<sup>C</sup>, [searchable resource](#)<sup>C</sup>

**is in range of**

[should be](#)<sup>op</sup>

**is disjoint with**

[accessible](#)<sup>C</sup>, [interoperable](#)<sup>C</sup>, [reusable](#)<sup>C</sup>

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**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#GloballyUniquePersistentIdentifier

F1: Research output are assigned globally unique and persistent identifiers: Globally unique and persistent identifiers remove ambiguity in the meaning of your published data by assigning a unique identifier to every element of metadata and every concept/measurement in your dataset or any digital research output. In this context, identifiers consist of an internet link (e.g., a URL that resolves to a web page that defines the concept such as a particular human protein).

### has super-classes

[findable](#)<sup>C</sup>

### is in range of

[include](#)<sup>op</sup>, [retrievable by](#)<sup>op</sup>

### has members

[d o i](#)<sup>ni</sup>

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Interoperable

The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing.

### has super-classes

[f a i r](#)<sup>C</sup>

### has sub-classes

[f a i r vocabulary](#)<sup>C</sup>, [knowledge representation](#)<sup>C</sup>, [qualified cross reference](#)<sup>C</sup>

### is in range of

[should be](#)<sup>op</sup>

### is disjoint with

[accessible](#)<sup>C</sup>, [findable](#)<sup>C</sup>, [reusable](#)<sup>C</sup>

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#KnowledgeRepresentation

I1: (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation: Humans should be able to exchange and interpret each other's data (so preferably do not use dead languages). But this also applies to computers, meaning that data that should be readable for machines without the need for specialised or ad hoc algorithms, translators, or mappings. Interoperability typically means that each computer system at least has knowledge of the other system's data exchange formats.

**has super-classes**

[interoperable](#)<sup>C</sup>

**provenance**<sup>C</sup>

[back to ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Provenance

**has super-classes**

[rich accurate relevant metadata](#)<sup>C</sup>

**is also defined as**

[named individual](#)

**qualified cross reference**<sup>C</sup>

[back to ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#QualifiedCrossReference

I3: (Meta)data include qualified references to other (meta)data A qualified reference is a cross-reference that explains its intent. The goal therefore is to create as many meaningful links as possible between (meta)data resources to enrich the contextual knowledge about the data, balanced against the time/energy involved in making a good data model. To be more concrete, you should specify if one dataset builds on another data set, if additional datasets are needed to complete the data, or if complementary information is stored in a different dataset. In particular, the scientific links between the datasets need to be described. Furthermore, all datasets need to be properly cited (i.e., including their globally unique and persistent identifiers).

**has super-classes**

[interoperable](#)<sup>C</sup>

**reusable**<sup>C</sup>

[back to ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Reusable

The ultimate goal of FAIR is to optimise the reuse of data. Data should be ready to be Reused for future research and to be further processed using computational methods. This requires adequate information about how the data were obtained and processed (provenance) and an appropriate license.

**has super-classes**

[fair](#)<sup>C</sup>

**has sub-classes**

[rich accurate relevant metadata](#)<sup>C</sup>

**is in range of**

[should be](#)<sup>op</sup>

**is disjoint with**

[accessible](#)<sup>C</sup>, [findable](#)<sup>C</sup>, [interoperable](#)<sup>C</sup>

**[rich accurate relevant metadata](#)<sup>C</sup>**

[back to ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#RichAccurateRelevantMetadata

R1: (Meta)data are richly described with a plurality of accurate and relevant attributes

It will be much easier to find and reuse data if there are many labels are attached to the data. Principle R1 is related to F2, but R1 focuses on the ability of a user (machine or human) to decide if the data is actually USEFUL in a particular context. To make this decision, the data publisher should provide not just metadata that allows discovery, but also metadata that richly describes the context under which the data was generated. This may include the experimental protocols, the manufacturer and brand of the machine or sensor that created the data, the species used, the drug regime, etc. Moreover, R1 states that the data publisher should not attempt to predict the data consumer's identity and needs. We chose the term 'plurality' to indicate that the metadata author should be as generous as possible in providing metadata, even including information that may seem irrelevant.

**has super-classes**

[reusable](#)<sup>C</sup>

**has sub-classes**

[domain relevant community standards](#)<sup>C</sup>, [provenance](#)<sup>C</sup>, [usage license](#)<sup>C</sup>

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#RichMetadata

F2: Research output are described with rich metadata: Rich metadata allow a computer to automatically accomplish routine and tedious sorting and prioritising tasks that currently demand a lot of attention from researchers. The rationale behind this principle is that someone should be able to find research output based on the information provided by their metadata, even without their identifier.

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**has super-classes**

[findable](#)<sup>C</sup>

**is in domain of**

[include](#)<sup>op</sup>

**has members**

[communication protocol](#)<sup>ni</sup>, [contact email](#)<sup>ni</sup>, [contact name](#)<sup>ni</sup>, [description](#)<sup>ni</sup>, [format](#)<sup>ni</sup>, [issued](#)<sup>ni</sup>, [landing page](#)<sup>ni</sup>, [language](#)<sup>ni</sup>, [license](#)<sup>ni</sup>, [modified](#)<sup>ni</sup>, [o r c i d](#)<sup>ni</sup>, [provenance](#)<sup>ni</sup>, [public access level](#)<sup>ni</sup>, [publisher](#)<sup>ni</sup>, [references](#)<sup>ni</sup>, [software code](#)<sup>ni</sup>, [title](#)<sup>ni</sup>, [unique identifier](#)<sup>ni</sup>

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searchable resource<sup>C</sup>

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#SearchableResource

F4: (Meta)data are registered or indexed in a searchable resource: Identifiers and rich metadata descriptions alone will not ensure 'findability' on the internet. Perfectly good data resources may go unused simply because no one knows they exist. If the availability of a digital resource such as a dataset, service or repository is not known, then nobody (and no machine) can discover it. There are many ways in which digital resources can be made discoverable, including indexing.

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**has super-classes**

[findable](#)<sup>C</sup>

**has members**

[registry index](#)<sup>ni</sup>

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software<sup>C</sup>

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Software



**has super-classes**

[digital resource](#)<sup>C</sup>

**is disjoint with**

[article](#)<sup>C</sup>, [data set](#)<sup>C</sup>

**standardised communication protocol**<sup>C</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#StandardisedCommunicationProtocol

A1: (Meta)data are retrievable by their identifier using a standardised communication protocol: Protocol called tcp, that the computer executes to load data in the user's web browser. (Note that http(s) or ftp, which form the backbone of modern internet, are built on tcp, and make requesting and providing digital resources substantially easier than other communication protocols.)

**has super-classes**

[accessible](#)<sup>C</sup>

**has sub-classes**

[authentication authorisation](#)<sup>C</sup>, [universal open free](#)<sup>C</sup>

**is in range of**

[using](#)<sup>op</sup>

**has members**

[communication protocol](#)<sup>ni</sup>

**universal open free**<sup>C</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#UniversalOpenFree

A1.1: The protocol is open, free and universally implementable To maximise data reuse, the protocol should be free (no-cost) and open (-sourced) and thus globally implementable to facilitate data retrieval. Anyone with a computer and an internet connection can access at least the metadata.

**has super-classes**

[standardised communication protocol](#)<sup>C</sup>

**has members**

[communication protocol](#) <sup>ni</sup>

usage license<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#UsageLicense

R1.1: (Meta)data are released with a clear and accessible data usage license R1.1 is about legal interoperability. What usage rights do you attach to your data? This should be described clearly. Ambiguity could severely limit the reuse of your data by organisations that struggle to comply with licensing restrictions. Clarity of licensing status will become more important with automated searches involving more licensing considerations. The conditions under which the data can be used should be clear to machines and humans.

**has super-classes**

[rich accurate relevant metadata](#) <sup>c</sup>

## Object Properties

[include](#) [retrievable by](#) [should be](#) [using](#)

include<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Include

**has characteristics:** functional

**has domain**

[rich metadata](#) <sup>c</sup>

**has range**

[globally unique persistent identifier](#) <sup>c</sup>

retrievable by<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#retrievableBy

**has characteristics:** functional

**has domain**

[accessible metadata](#) <sup>c</sup>

**has range**

[globally unique persistent identifier](#) <sup>c</sup>

**should be**<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#shouldBe

**has characteristics:** functional

**has domain**

[fair](#) <sup>c</sup>

**has range**

[accessible](#) <sup>c</sup>

[findable](#) <sup>c</sup>

[interoperable](#) <sup>c</sup>

[reusable](#) <sup>c</sup>

**using**<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#using

**has characteristics:** functional

**has domain**

[accessible metadata](#) <sup>c</sup>

**has range**

[standardised communication protocol](#) <sup>c</sup>

# Data Properties

[identifier](#)   [issued](#)

identifier<sup>dp</sup>

back to [ToC](#) or [Data Property ToC](#)

**IRI:** http://purl.org/dc/terms/identifier

DOI (Digital Object Identifier)

Identifier for academic, professional, and government information.

issued<sup>dp</sup>

back to [ToC](#) or [Data Property ToC](#)

**IRI:** http://purl.org/dc/terms/issued

**has super-properties**  
top data property

# Named Individuals

[authentication](#)   [authorisation](#)   [communication protocol](#)   [communication protocol](#)   [contact email](#)   [contact name](#)  
[d o i](#)   [description](#)   [format](#)   [issued](#)   [landing page](#)   [language](#)   [license](#)   [modified](#)   [o r c i d](#)   [provenance](#)  
[public access level](#)   [publisher](#)   [references](#)   [registry index](#)   [software code](#)   [title](#)   [unique identifier](#)

authentication<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Authentication

**belongs to**

[authentication authorisation](#)<sup>c</sup>

authorisation<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Authorisation

belongs to

[authentication authorisation](#)<sup>c</sup>

has facts

access rights<sup>dp</sup> *literal*

communication protocol<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Communication\_Protocol

belongs to

[rich metadata](#)<sup>c</sup>

communication protocol<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#communicationProtocol

belongs to

[standardised communication protocol](#)<sup>c</sup>

[universal open free](#)<sup>c</sup>

contact email<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Contact\_Email

belongs to

[rich metadata](#)<sup>c</sup>

## has facts

mbox <sup>dp</sup> ""

## contact name<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Contact\_Name

## belongs to

[rich metadata](#) <sup>c</sup>

## has facts

name <sup>dp</sup> ""

## doi<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#DOI

## belongs to

[globally unique persistent identifier](#) <sup>c</sup>

## has facts

identifier <sup>dp</sup> ""

## description<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Description

## belongs to

[rich metadata](#) <sup>c</sup>

## has facts

description <sup>dp</sup> ""

## format<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Format

**belongs to**

[rich metadata](#) <sup>c</sup>

**has facts**

[has format](#) <sup>dp</sup> *literal*

**issued** <sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#issued

**belongs to**

[rich metadata](#) <sup>c</sup>

**has facts**

[issued](#) <sup>dp</sup> *"2018-01-01" date*

**landing page** <sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#landingPage

**belongs to**

[rich metadata](#) <sup>c</sup>

**has facts**

[home page](#) <sup>dp</sup> *any uri*

**language** <sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#language

**belongs to**

[rich metadata](#) <sup>c</sup>

**has facts**

[language](#) <sup>dp</sup> *language*

license<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#license

belongs to

[rich metadata](#)<sup>c</sup>

modified<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Modified

belongs to

[rich metadata](#)<sup>c</sup>

has facts

modified<sup>dp</sup> "2018-01-01"^^date

orcid<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#ORCID

belongs to

[rich metadata](#)<sup>c</sup>

has facts

identifier<sup>dp</sup> ""

provenance<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

IRI: urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Provenance

belongs to

[rich metadata](#)<sup>c</sup>

has facts



has provenance <sup>dp</sup> <sup>literal</sup>  
**is also defined as**  
[class](#)

[public access level](#)<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Public\_Access\_Level

**belongs to**  
[rich metadata](#)<sup>c</sup>

**has facts**  
access rights <sup>dp</sup> <sup>literal</sup>

[publisher](#)<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Publisher

**belongs to**  
[rich metadata](#)<sup>c</sup>

**has facts**  
publisher <sup>dp</sup> <sup>literal</sup>

[references](#)<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#References

**belongs to**  
[rich metadata](#)<sup>c</sup>

**has facts**  
references <sup>dp</sup> <sup>literal</sup>

[registry index](#)<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Registry\_Index

**belongs to**

[searchable resource](#)<sup>c</sup>

**has facts**

registry index <sup>dp</sup> <sup>""^^</sup>name

registry index <sup>dp</sup> <sup>""^^</sup>any u r i

**is also defined as**

data property

**software code**<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#SoftwareCode

**belongs to**

[rich metadata](#)<sup>c</sup>

**title**<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Title

**belongs to**

[rich metadata](#)<sup>c</sup>

**has facts**

title <sup>dp</sup> <sup>""</sup>

**unique identifier**<sup>ni</sup>

back to [ToC](#) or [Named Individual ToC](#)

**IRI:** urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#Unique\_Identifier

**belongs to**

[rich metadata](#)<sup>c</sup>

**has facts**

## General Axioms

### All Disjoint Classes

[back to ToC](#)

[accessible](#)<sup>C</sup>, [findable](#)<sup>C</sup>, [interoperable](#)<sup>C</sup>, [reusable](#)<sup>C</sup>

### All Disjoint Classes

[back to ToC](#)

[article](#)<sup>C</sup>, [data set](#)<sup>C</sup>, [software](#)<sup>C</sup>

## Namespace Declarations

[back to ToC](#)

### **default namespace**

urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#

### **FAIR-Ontology**

urn:absolute:/home/owairdhi/Documents/Protege/FAIR-Ontology#

### **computernetworks**

http://mmisw.org/ont/Technology/ComputerNetworks/

### **foaf**

http://xmlns.com/foaf/0.1/

### **owl**

http://www.w3.org/2002/07/owl#

### **prov**

http://www.w3.org/ns/prov#

### **rdf**

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

### **rdfs**

http://www.w3.org/2000/01/rdf-schema#

**terms**

<http://purl.org/dc/terms/>

**xsd**

<http://www.w3.org/2001/XMLSchema#>

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