

# Circular Economy Ontology Network (CEON) - Location Module

## Metadata

### IRI

<http://w3id.org/CEON/ontology/location/>

### Title

Circular Economy Ontology Network (CEON) - Location Module

### Creator

Eva Blomqvist

### Contributor

Huanyu Li  
Mikael Lindecrantz  
Robin Keskisärkkä

### Date Created

2023-03-17

### License

<https://creativecommons.org/licenses/by/4.0/>

### Version Iri

<http://w3id.org/CEON/ontology/location/0.1/>

### Version Info

0.1

### Preferred Namespace Prefix

location

### Preferred Namespace Uri

<http://w3id.org/CEON/ontology/location/>

### Description

A module the CEON ontology network, defining aspects of the location concept.

### Covers Requirements

Covers the following requirements from Onto-DESIDE D3.2: CE3-3

## Classes

Location <sup>c</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/location/Location">http://w3id.org/CEON/ontology/location/Location</a>
Sub Class Of	<a href="#">Geometry</a> <sup>c</sup>
In Range Of	<a href="#">hasLocation</a> <sup>op</sup>

## Geometry<sup>C</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#Geometry">http://www.opengis.net/ont/geosparql#Geometry</a>
<b>Description</b>	A coherent set of direct positions in space. The positions are held within a Spatial Reference System (SRS).
<b>In Domain Of</b>	<a href="#">as GML</a> <sup>dp</sup> <a href="#">as GeoJSON</a> <sup>dp</sup> <a href="#">as WKT</a> <sup>dp</sup>
<b>Super Class Of</b>	<a href="#">Location</a> <sup>C</sup>

## Object Properties

### has location<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasLocation">http://w3id.org/CE0N/ontology/location/hasLocation</a>
<b>Range</b>	<a href="#">Location</a> <sup>C</sup>

## Datatype Properties

### has city<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasCity">http://w3id.org/CE0N/ontology/location/hasCity</a>
<b>Range</b>	<a href="#">xsd:string</a>

### has country code<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasCountryCode">http://w3id.org/CE0N/ontology/location/hasCountryCode</a>
<b>Range</b>	<a href="#">xsd:string</a>

### has postal code<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasPostalCode">http://w3id.org/CE0N/ontology/location/hasPostalCode</a>
<b>Range</b>	<a href="#">xsd:string</a>

### has street<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasStreet">http://w3id.org/CE0N/ontology/location/hasStreet</a>
<b>Range</b>	<a href="#">xsd:string</a>

as GML<sup>dp</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#asGML">http://www.opengis.net/ont/geosparql#asGML</a>
<b>Is Defined By</b>	<a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal</a>
<b>Description</b>	The GML serialization of a Geometry.
<b>Domain</b>	<a href="#">Geometry</a> <sup>c</sup>
<b>Range</b>	<a href="#">geo:gmlLiteral</a>

as GeoJSON<sup>dp</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#asGeoJSON">http://www.opengis.net/ont/geosparql#asGeoJSON</a>
<b>Is Defined By</b>	<a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal</a>
<b>Description</b>	The GeoJSON serialization of a Geometry.
<b>Domain</b>	<a href="#">Geometry</a> <sup>c</sup>
<b>Range</b>	<a href="#">geo:geoJSONLiteral</a>

as WKT<sup>dp</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#asWKT">http://www.opengis.net/ont/geosparql#asWKT</a>
<b>Is Defined By</b>	<a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal">http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal</a>
<b>Description</b>	The WKT serialization of a Geometry.
<b>Domain</b>	<a href="#">Geometry</a> <sup>c</sup>
<b>Range</b>	<a href="#">geo:wktLiteral</a>

## Annotation Properties

contributor<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>
------------	---

created<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>
------------	---

creator<sup>ap</sup>

<b>IRI</b>	<a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>
------------	---

description <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>
license <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>
title <sup>ap</sup>	
IRI	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
preferred namespace prefix <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespacePrefix">http://purl.org/vocab/vann/preferredNamespacePrefix</a>
preferred namespace uri <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespaceUri">http://purl.org/vocab/vann/preferredNamespaceUri</a>
covers requirements <sup>ap</sup>	
IRI	<a href="http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements</a>
definition <sup>ap</sup>	
IRI	<a href="http://www.w3.org/2004/02/skos/core#definition">http://www.w3.org/2004/02/skos/core#definition</a>
pref label <sup>ap</sup>	
IRI	<a href="http://www.w3.org/2004/02/skos/core#prefLabel">http://www.w3.org/2004/02/skos/core#prefLabel</a>

## Namespaces

```

:
    http://w3id.org/CEON/ontology/location/
dcterms
    http://purl.org/dc/terms/
geo
    http://www.opengis.net/ont/geosparql#
odp
    http://www.ontologydesignpatterns.org/schemas/cannotationschema.owl#
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#>

**skos**

<http://www.w3.org/2004/02/skos/core#>

**vann**

<http://purl.org/vocab/vann/>

**xsd**

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

## Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties