Cartographic Spatial Extent (Bounding Box Coordinates)

Linked Data for Libraries Cartographic Materials Working Group Ontology Modeling Examples -- **Draft Version 2**, May 2018

Ontologies

```
@prefix bib: <http://bibliotek-o.org/1.1/ontology/> .
@prefix bf: <http://id.loc.gov/ontologies/bibframe/> .
@prefix gcro: <http://ontology.library.harvard.edu/geo/> .
@prefix geo: <http://www.opengis.net/ont/geosparql#> .
@prefix rdau: <http://rdaregistry.info/Elements/u/> .
```

Classes

```
geo:Geometry gcro:CartSource
```

Object Properties

bib:hasSource

Data Properties

```
geo:asWKT
```

gcro:Wikiped

rdau:P60109 ["has coordinates of cartographic content"]

Named Individuals of gcro:CartSource

Sources for coordinate data

{based on MARC 034 \$\$2 Cartographic Data Source Code list https://www.loc.gov/standards/sourcelist/cartographic-data.html}:

```
gcro:Bound

gcro:GeoNames

gcro:GeoNames

gcro:GNS

gcro:GettyTGN

gcro:GNS

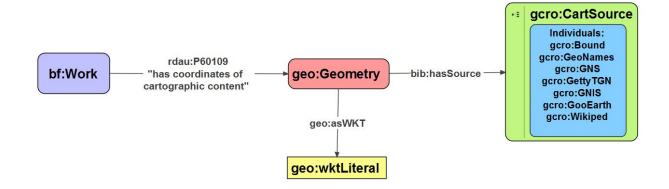
Georaphic Names Information System (GNIS)

gcro:GooEarth

Google Earth
```

Wikipedia

Illustration



Examples

Example 1 - Map of Australia, source of coordinates the Klokan Bounding Box Tool E 72°14'00"--E 168°13'00"/S 9°05'00"--S 55°19'00"

:work1 rdau:P60109 :geometry1 .

:geometry1 a geo:Geometry; bib:hasSource gcro:Bound;

geo:asWKT "POLYGON((72.2 -9.1, 168.2 -9.1, 168.2 -55.3, 72.2 -55.3, 72.2 -9.1))"^^geo:wktLiteral .

Example 2 - Map of Prague, source of coordinates the map itself E 14°18'45"--E 14°29'15"/N 50°08'00"--N 50°01'30"

:work2 rdau:P60109 :geometry2 .

:geometry2 a geo:Geometry;

bib:hasSource:work2;

geo:asWKT "POLYGON((14.3125 50.13333, 14.4875 50.13333, 14.4875 50.025, 14.3125 50.025, 14.3125 50.13333))"^^geo:wktLiteral .