

## Cartographic Spatial Extent (Bounding Box Coordinates)

Linked Data for Libraries Cartographic Materials Working Group

Ontology Modeling Examples -- **Draft**, June 2017

### Ontologies

```
@prefix bib: <http://bib.ld4l.org/ontology/> .  
@prefix bf: <http://id.loc.gov/ontologies/bibframe/> .  
@prefix cart: <http://geocartframe.org/> .  
@prefix geo: <http://www.opengis.net/ont/geosparql#> .  
@prefix rdau: <http://rdaregistry.info/Elements/u/> .
```

### Classes

geo:Geometry

### Object Properties

bib:hasSource

### Data Properties

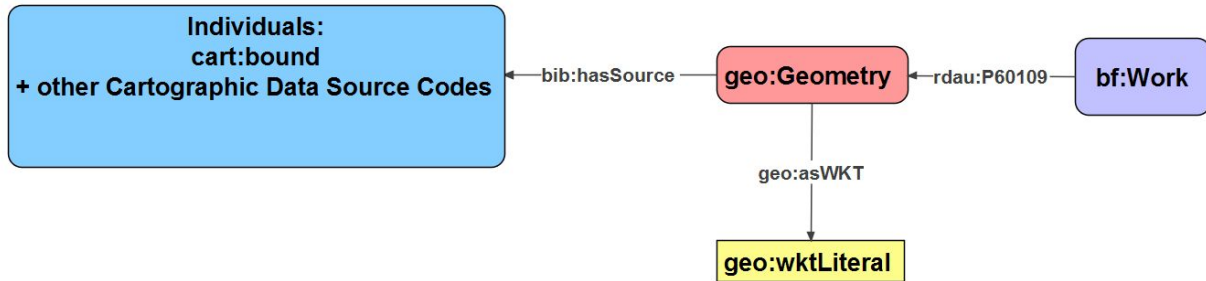
geo:asWKT

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

### Named Individuals

Sources for coordinate data  
{based on MARC 034 \$\$2 Cartographic Data Source Code list  
<https://www.loc.gov/standards/sourcelist/cartographic-data.html>}:  
e.g. cart:bound

### 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 cart: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 .
```