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

Ontologies

```
@prefix bf:   <http://id.loc.gov/ontologies/bibframe/> .
@prefix gcro: <http://http://ontology.library.harvard.edu/geo/> .
@prefix rdau: <http://rdaregistry.info/Elements/u/> .
@prefix rdfs:  <http://www.w3.org/2000/01/rdf-schema#> .
```

Classes

bf:Projection
    subclasses {based primarily on MARC Map format projection codes (008/22-23) /
                (006/05-06)}:
        gcro:AzimuthalProjection
            Subclasses:
                gcro:Aitoff
                gcro:Gnomic
                gcro:LambertAzimuthalEquidistant
                gcro:Orthographic
                gcro:AzimuthalEquidistant
                gcro:Stereographic
                gcro:GeneralVerticalNearSided
                gcro:ModifiedStereographicForAlaska
                gcro:ChamberlinTrimetric
                gcro:PolarStereographic
                gcro:AzimuthalSpecificTypeUnknown
                gcro:AzimuthalOther

    subclasses:
        gcro:CylindricalProjection
            Subclasses:
                gcro:Gall
                gcro:GoodesHomolographic
                gcro:LambertCylindricalEqualArea
                gcro:Mercator
                gcro:Miller
                gcro:Mollweide
                gcro:Sinusoidal
                gcro:TransverseMercator

gcro:GaussKruger

gcro:Equirectangular

gcro:Krovak

gcro:CassiniSoldner

gcro:ObliqueMercator

gcro:Robinson

gcro:SpaceObliqueMercator

gcro:CylindricalSpecificTypeUnknown

gcro:CylindricalOther

subclasses:

gcro:ConicalProjection

Subclasses:

gcro:AlbersEqualArea

gcro:Bonne

gcro:LambertsConformalConic

gcro:EquidistantConic

gcro:Polyconic

gcro:ConicSpecificTypeUnknown

gcro:ConicOther

subclasses:

gcro:UnclassifiedProjection

Subclasses:

gcro:Armadillo

gcro:Butterfly

gcro:Eckert

gcro:GoodesHomolosine

gcro:MillersBipolarObliqueConformalConic

gcro:VanDerGrinten

gcro:Dimaxion

gcro:Cordiform

gcro:LambertConformal

gcro:OtherProjection

gcro:ProjectionNotSpecified

gcro:ProjNoAttemptToCode

gcro:ProjectionPreservationProperty

Object Properties
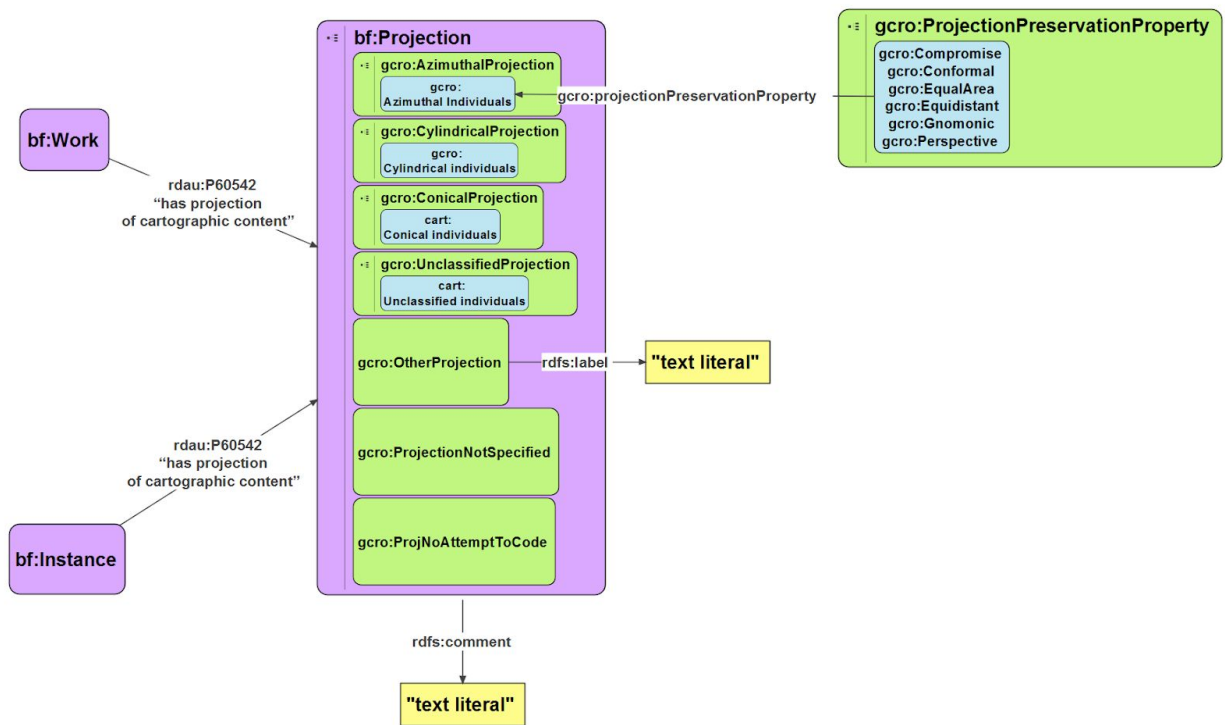
rdau:P60542 ["has projection of cartographic content"]

gcro:projectionPreservationProperty

Data Properties

rdfs:comment
rdfs:label

Illustration

Paper Map Examples

Example 1 - Gauss projection.

:work1 rdau:P60542 :projection1 .

:projection1 a gcro:GaussKruger .

Example 2 - transverse Mercator projection, central meridian 31^0 13' 30" E

:work2 rdau:P60542 :projection2 .

:projection2 a gcro:TransverseMercator ;
       rdfs:comment "central meridian 31^0 13' 30" E" .

Example 3 - Peirce quincuncial projection

:work3 rdau:P60542 :projection3 .

:projection3 a gcro:OtherProjection ;
       rdfs:label "Peirce quincuncial projection" .

Example 4 - Projection not identified

:work4 rdau:P60542 :projection4 .

:projection4 a gcro:ProjectionNotIdentified .