Cartographic Scale

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/> .
```

Classes

```
bf:Scale
      Subclasses:
             gcro:HorizontalScale
             gcro:VerticalScale
             gcro:ScaleIndeterminable
             gcro:ScaleNotDetermined
             gcro:NotDrawnToScale
             gcro:ScaleVaries
             gcro:ScaleNotGiven
             gcro:ScalesDiffer
gcro:ScaleAccuracy
      Named Individuals:
             gcro:ExplicitScale
             gcro:ApproximateScale
             gcro:InaccurateScale
             gcro:ScaleAccuracyUnknown
gcro:ScaleSource
      Named Individuals:
             gcro:RepresentativeFraction
             gcro:VerbalStatement
             gcro:ScaleBar
```

gcro:CalculatedFromPrimarySource

gcro:DerivedOther

Object Properties

bf:scale

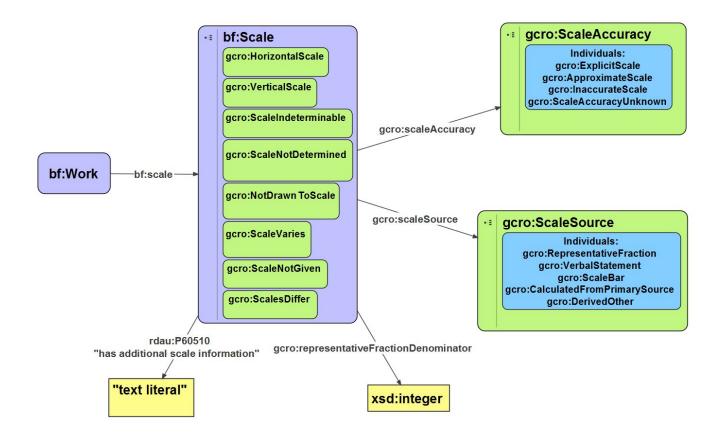
gcro:scaleAccuracy gcro:scaleSource

Data Properties

gcro:representativeFractionDenominator

rdau:P60510 ["has additional scale information"]

Illustration



Examples

Example 1 "Scale 1:24,000."

```
:work1 bf:scale :scale1.
      :scale1 a gcro:HorizontalScale;
              gcro:representativeFractionDenominator "24000"^^xsd:integer;
              gcro:scaleAccuracy gcro:ExplicitScale;
              gcro:scaleSource gcro:RepresentativeFraction.
Example 2 "Scale approximately 1 inch to a mile."
      :work2 bf:scale :scale2 .
      :scale2 a gcro:HorizontalScale;
              gcro:representativeFractionDenominator "63360"^^xsd:integer;
              rdau:P60510 "1 inch to a mile":
              gcro:scaleAccuracy gcro:ApproximateScale;
              gcro:scaleSource gcro:VerbalScale .
Example 3 Scale example inaccurately stated: "Scale approximately 1:40,000 not
       1:63,360"
      :work3 bf:scale :scale3a, :scale3b .
      :scale3a a gcro:HorizontalScale;
              gcro:representativeFractionDenominator "63360"^^xsd:integer;
              gcro:scaleAccuracy gcro:InaccurateScale;
              gcro:scaleSource gcro:RepresentativeFraction.
      :scale3b a gcro:HorizontalScale;
              gcro:representativeFractionDenominator "40000"^^xsd:integer;
              rdau:P60510 "Scale approximately 1:40,000 not 1:63,360";
              gcro:scaleAccuracy gcro:ApproximateScale;
              gcro:scaleSource gcro:CalculatedFromPrimarySource .
Example 4 Pictorial View
      :work4 bf:scale :scale4 .
      :scale4 a gcro:NotDrawnToScale .
```

rdau:P60510 "Scale Not Given.".