

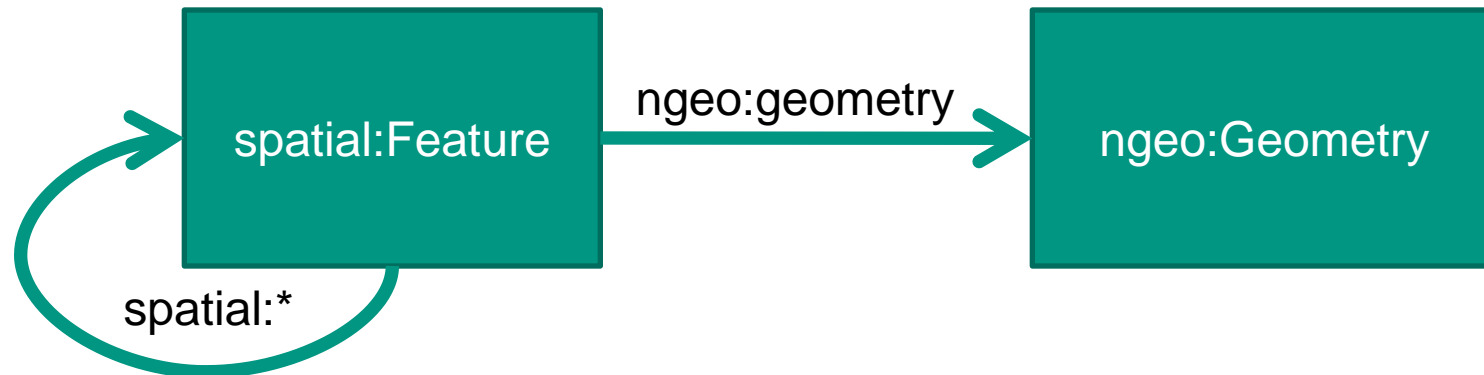
# GeoVocab.org

Institut für Angewandte Informatik und Formale Beschreibungsverfahren (AIFB)



# Introduction

- **GeoVocab.org** is an initiative to study methods and tools for the integration of geospatial data on the Semantic Web



# NeoGeo Vocabularies

- **Spatial Vocabulary** – <http://geovocab.org/spatial>
  - Description of topological relations, e.g. Partially Overlaps, Contains, Tangentially Contains, Disconnected From
  - Reasoning over Region Connection Calculus (RCC) with OWL
- **Geometry Vocabulary** – <http://geovocab.org/geometry>
  - Description of georeferenced geometric shapes.

# Geospatial datasets

*We have published RDF representations of two high quality spatial datasets:*

## ■ **GADM-RDF** – <http://gadm.geovocab.org>

- GADM is a project seeking to become a collaborative effort on building a high resolution spatial database containing information about the world's administrative regions.

## ■ **NUTS-RDF** – <http://nuts.geovocab.org>

- The Nomenclature of Territorial Units for Statistics (NUTS) is a classification that divides the European Union into demographically equivalent regions.

# Advantages

## ■ Schema integration – <http://geovocab.org/doc/survey.html>

- We have surveyed several well-known Linked Data datasets (Ordnance Survey, GeoLinkedData.es, LinkedGeoData.org, etc.) and identified a core set of properties used to represent geodata.
- The identified properties were mapped to the NeoGeo vocabularies and are provided at GeoVocab.org.

## ■ Instance integration

- We are developing a tool for finding equivalences between regions across multiple datasets at the geometry level.

# Check out <http://geovocab.org/>

## NeoGeo Vocabulary: Defining a shared RDF representation for GeoData

### This Version

<http://geovocab.org/doc/neogeo.html>

### Previous Version

<http://geovocab.org/doc/survey.html>

### Last Modified

\$Id: neogeo.html 26 2011-05-02 13:10:01Z jmsalas@gmail.com \$

### Status

Public draft

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