



# **Wat is Linked Open Data ook alweer?**

Pilot Open en Linked Data  
(Wilko Quak)

2012-09-19

## Linked Open Data Overzicht

- Filmpje ([hier](#))
- Vier principes
- Vijf sterren
- Wat willen we ermee?

## De vier principes van linked data

1. Use **URIs** as names for **things**
2. Use **HTTP** URIs so that people can look up those names
3. When someone looks up a URI, provide **useful information**, using the standards (RDF, SPARQL, **GML?**)
4. Include **links** to other URIs, so that they can discover more things

## 1: Use URIs as names for things

- <http://www.kadaster.nl/percelen/4341572/>
- <http://observant.nl/koffieautomaten/zaal1/>
- <http://ns.nl/stations/amersfoort/>
- [http://wilkoquak.nl/fotos/DHC\\_12334.jpg](http://wilkoquak.nl/fotos/DHC_12334.jpg)
- <http://prorail.nl/station/Amersfoort-CS/>



Pilo  
Lin

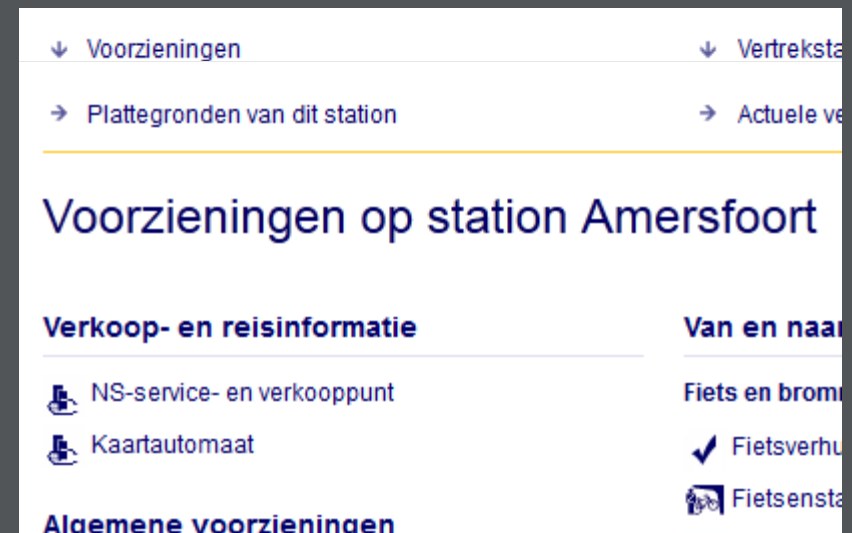
2012-09-19



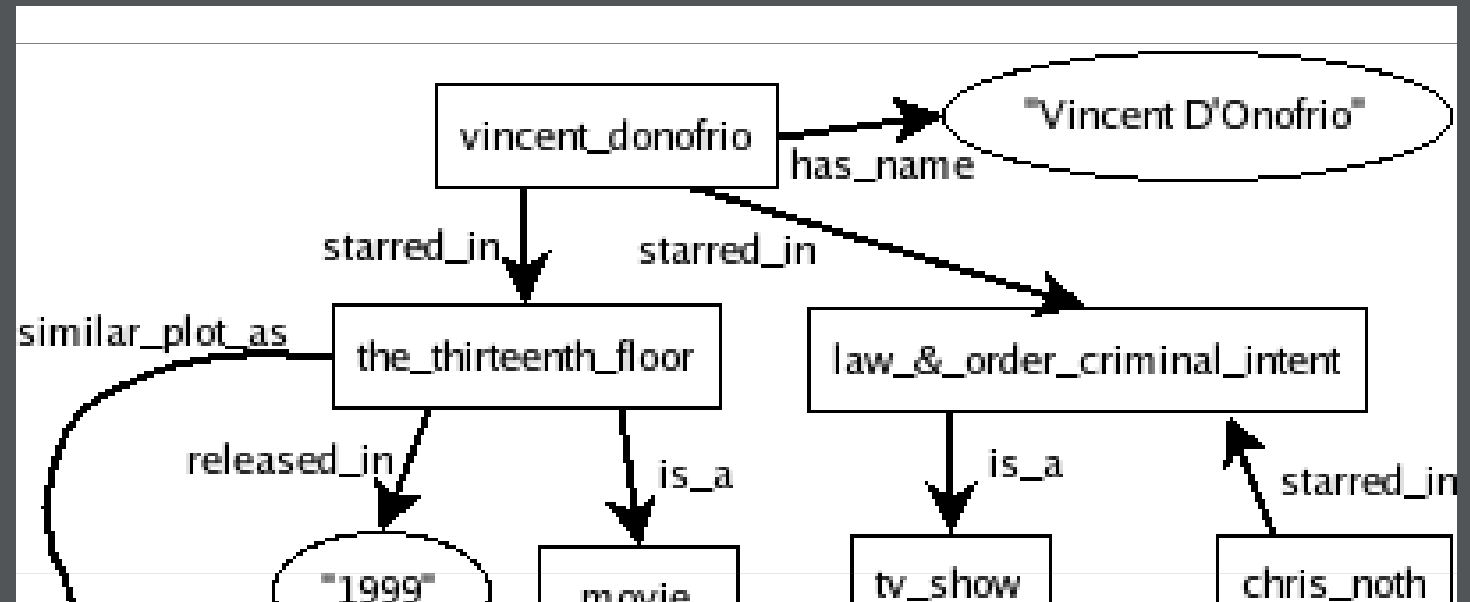
## 2: Use HTTP URIs so that people can look up those names

→ Internet of things

- <http://www.kadaster.nl/percelen/4341572/>
- [http://wilkoquak.nl/pictures/IMG\\_6412.JPG](http://wilkoquak.nl/pictures/IMG_6412.JPG)
- [http://wilkoquak.nl/fotos/DHC\\_12334.jpg](http://wilkoquak.nl/fotos/DHC_12334.jpg)
- <http://ns.nl/station/Amersfoort/>



### 3: When someone looks up a URI, provide useful information, using the standards (RDF, SPARQL, GML?)

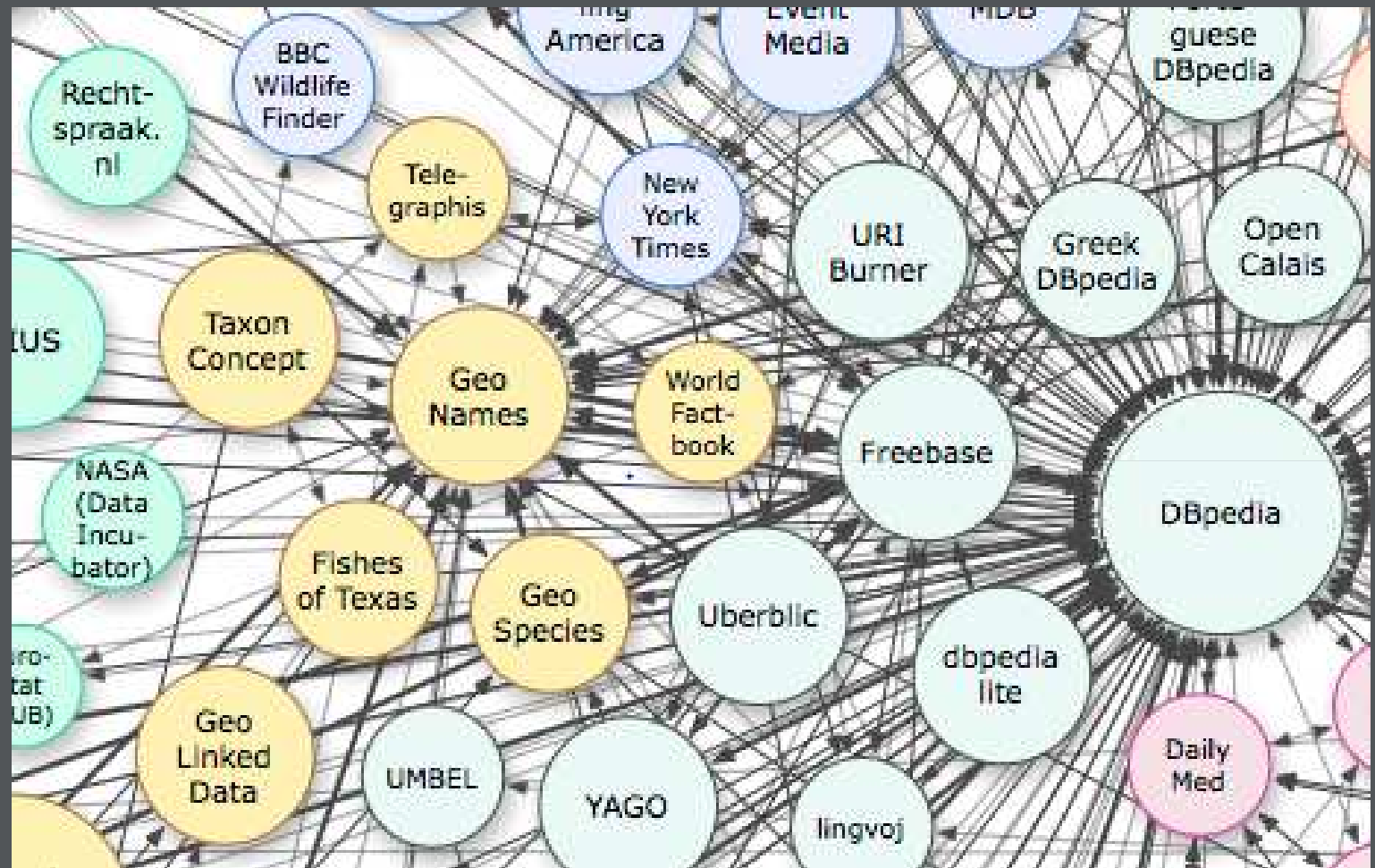


```

<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:ns="http://www.example.org/#">
  <ns:Person rdf:about="http://www.example.org/#john">
    <ns:hasMother rdf:resource="http://www.example.org/#susan" />
    <ns:hasFather>
      <rdf:Description rdf:about="http://www.example.org/#richard">
        <ns:hasBrother rdf:resource="http://www.example.org/#luke" />
      </rdf:Description>
    </ns:hasFather>
  </ns:Person>
  </rdf:RDF>

```

## 4: Include **links** to other URIs, so that they can discover more things



## De vijf sterren van Linked OPEN data





## **Drie redenen waarom we linked data willen in de geo wereld**

1. Vanuit het geo wereldje → internet of things (WEB 2.0)
2. Linked data tegen de verzuiling.
3. Linked Data is een goede oplossing om de NEN 3610 identifier strategie volwassen te maken. INSPIRE gaat ook die kant op.



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