Triply
GO FAIR

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Knowledge Graph

The Network Effect for Data

The value of a network is proportional to the square of the number of connected nodes.
Linked Data

lod-cloud.net
Data is already FAIR for GAFAM

Inside the Alexa-Friendly World of Wikidata
Virtual assistants do their jobs better thanks to Wikidata, which aims to (eventually) represent everything in the universe in a way computers can understand.

“Inside the Alexa-Friendly World of Wikidata” Wired 2019-02-18 (link)
Can a FAIR data platform be implemented?
Can it be done with Linked Data technology?
Can a FAIR data platform be implemented?
Can it be done with Linked Data technology?
How can we bring FAIR data to everybody else?
Large-scale Knowledge Graph Hosting

- 2014 LOD Laundromat: 38B edges
- 2015 LOD Lab: reproduce 3 SW papers at scale
- 2016 LOD Search: text index
- 2017 LOD-a-lot: 28B edges on a USB thumbdrive
- 2018 sameAs.cc: identity closure of 35B edges
TriplyDB: Large-scale Knowledge Graph
Hosting

triply.cc
“The Semantic Web has lacked an essential element which the WWW had from the start: the immediate gratification for information providers to see the results of their efforts on a screen.”

Tim Berners-Lee “Tabulator Redux” (2007)
Geospatial information

Kadaster Knowledge Graph: key registries, company registry, monument registry, energy labels, etc.
Statistical information

Life expectancy for the countries of the world over time (dataset: Gapminder).
Temporal information

Timeline of cars produced by Ford, Chevrolet, Porsche, and Toyota between 1903 and 2016 (dataset: DBpedia).
Linked Data cost/benefit

Cost
“Data are described with rich metadata.”

Benefit
Findable using popular search engines.
Linked Data cost/benefit

Cost

“(Meta)data are assigned a globally unique and eternally persistent identifier.”

Benefit

Zero-cost data integration.
Data Stories

A sequence of real-time generated data visualizations, connected through an overarching story.
Data Stories are...

- reproducible
- modifiable
- standardized
- explainable
Data Story Example: Churches in NL
Data Story Example: Maritime Sources
Data Stories → FAIR paper

- HTML5 paper (RASH) + metadata
- Store data together with the paper
- Institutional embedding
- Community acceptance
Summary

• Bring down the cost of hosting FAIR data.
• FAIR data must bring an immediate reward to the data publisher (e.g., constructive data search).
• The (perceived) benefits of FAIR must exceed the (perceived) costs of FAIR.
• Make it difficult to publish data that is not FAIR.
• FAIR paper: use of FAIR data.
Thank you for your attention!

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