

# **Knowledge Graphs**

### Lecture 1: Knowledge Representation with Graphs



- 1.1 From Data to Knowledge
- 1.2 Knowledge and how to represent it
- 1.3 The Art of Understanding
- 1.4 Graphs and Triples
- 1.5 Knowledge Graphs
- 1.6 The Semantic Web
- 1.7 Linked Data and the Web of Data

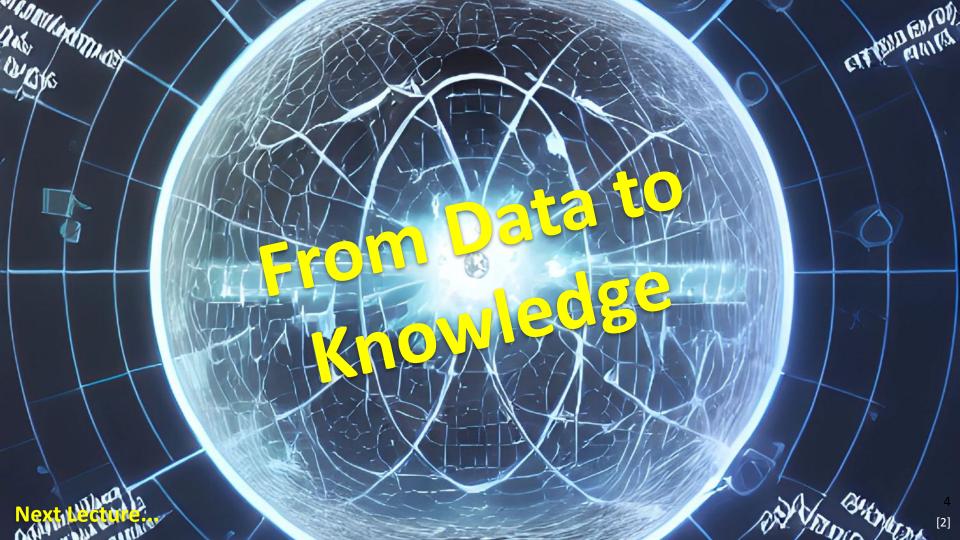
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#### **Additional Hands-On:**

- 1.1 Graph Creation from Text
- 1.2 The Art of Understanding: Natural Language Processing
- 1.3 NLP Ambiguities



## **Knowledge Graphs**

1. Knowledge Representation with Graphs



#### **Picture References:**

- [1] LOD Cloud, 2014-08-30, [cc-by-4.0], <a href="https://lod-cloud.net/versions/2014-08-30/lod-cloud.png">https://lod-cloud.net/versions/2014-08-30/lod-cloud.png</a>
- (2) "The Resource Description Framework (RDF) is a W3C standard originally designed as a data model for metadata...", created via ArtBot, Anything Diffusion generic scifi, 2023, [CC-BY-4.0], <a href="https://tinybots.net/artbot">https://tinybots.net/artbot</a>