

Knowledge Graphs

Lecture 2: Basic Knowledge Graph Infrastructure



- 2.1 How to Identify and Access Things
- 2.2 How to Represent Simple Facts with RDF
- 2.3 RDF Turtle Serialization
- 2.4 Vocabularies and Model Building with RDFS
- 2.5 RDF Complex Data Structures
 - Excursion 1: RDF Reification and RDF*
- 2.6 Logical Inference with RDF(S)
 - Excursion 2: RDFa RDF and the Web

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Additional Hands-On:

- 2.1 RDFLib RDF Serialization and Visualization
- 2.2 RDFLib RDF Graph Manipulation



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2. Basic Knowledge Graph Infrastructure



Picture References:

- (1) "An image of the Semantic Web which is an extension of the World Wide Web...", created via ArtBot, Dreamlike Diffusion, 2023, [CC-BY-4.0], https://tinybots.net/artbot
- (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], https://tinybots.net/artbot