Linked Data and Graph Databases

Introduction

Lívia Ruback   liviaruback@gmail.com

Find all material, references and links:

https://github.com/liviaruback/intro_linkeddata

Agenda

Concepts

- Linked Data
- Open Data
- SPARQL

- Graph databases
- Cypher query language

Practice!

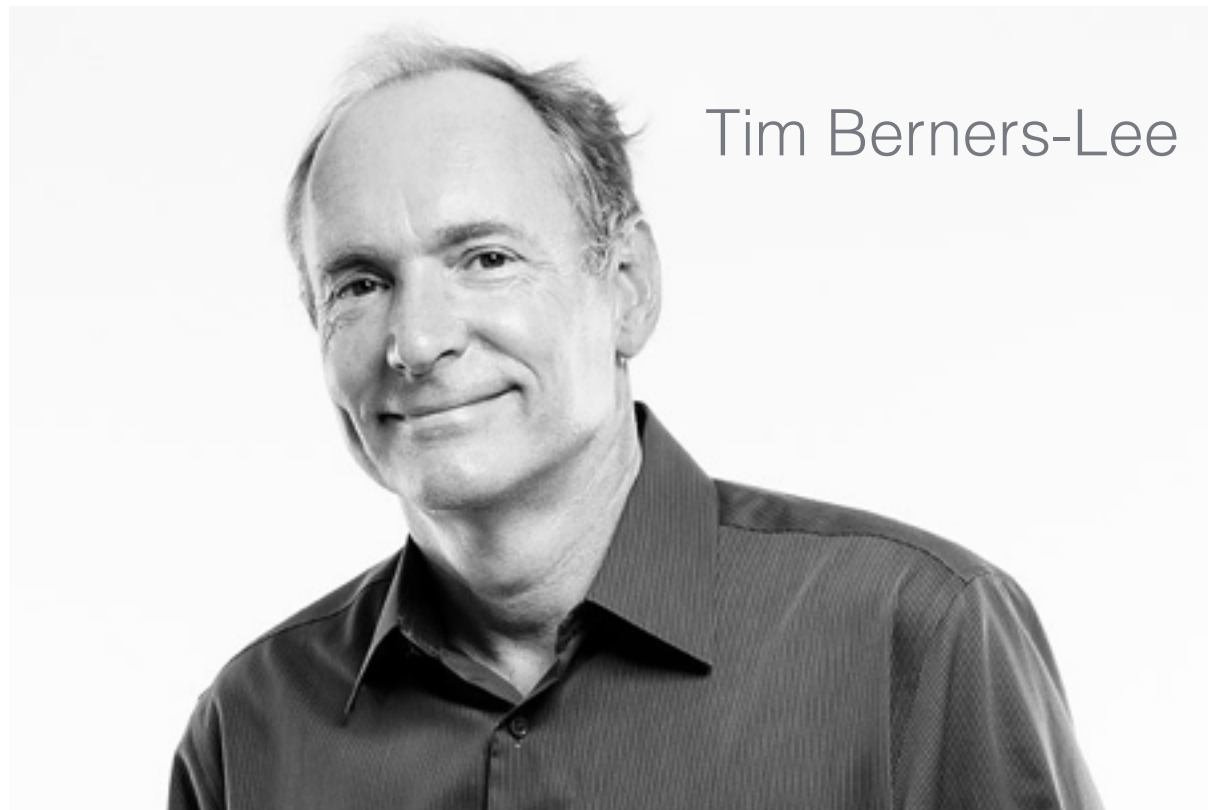SPARQL example in DBPedia

Storing and quering using Neo4J

Linked Data

Tim Berners-Lee

"The original idea of the web was that it should be a collaborative space where you can communicate through sharing information"

http://linkeddata.org/
https://www.w3.org/DesignIssues/LinkedData.html

Open data

LINKED DATA

★ On the web, open license
★★ Machine-readable data
★★★ Non-proprietary format
★★★★ RDF standards
★★★★★ Linked RDF

IS YOUR DATA 5 ★ ?

https://palavitsinis.wordpress.com/2016/03/28/5-star-open-data-by-sir-tb-l/

SPARQL

Let's practice?

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Graph databases

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Let's practice again?

https://neo4j.com/docs/operations-manual/current/installation/osx/

Let's practice again?