

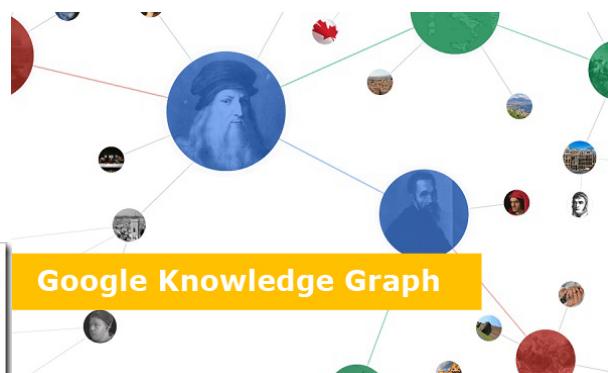
Capsenta

The Beautiful Data Company™

TBA

Juan Sequeda, PhD

Founder



Solutions ▾

lr

OCTOBER 23, 2017

Thomson Reuters Launches first of its kind Knowledge Graph Feed allowing Financial Services customers to accelerate their AI and Digital Strategies

Graph network of 2 billion relationships brings to life a comprehensive view of the financial ecosystem so that users can uncover new, unexpected or difficult to find insights from connected data.

UBER Engineering

Q Search Articles

Facebook Twitter

amazon alexa

Alexa Skills Kit

Alexa Voice Service

Connected Devices

Alexa Programs

Docs

Ale

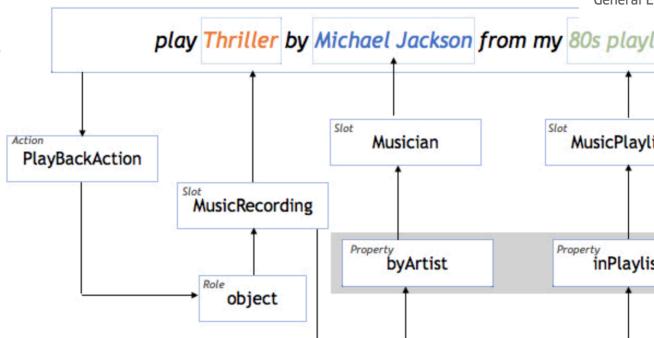
CATEGORIES
Architecture
AI
Uber Data
Open Source
Mobile
General Engineering

New Way to Annotate Training Data Should Enable More Sophisticated Interactions



June 01, 2018
Lambert Mathias

Alexa Alexa Research Alexa Science



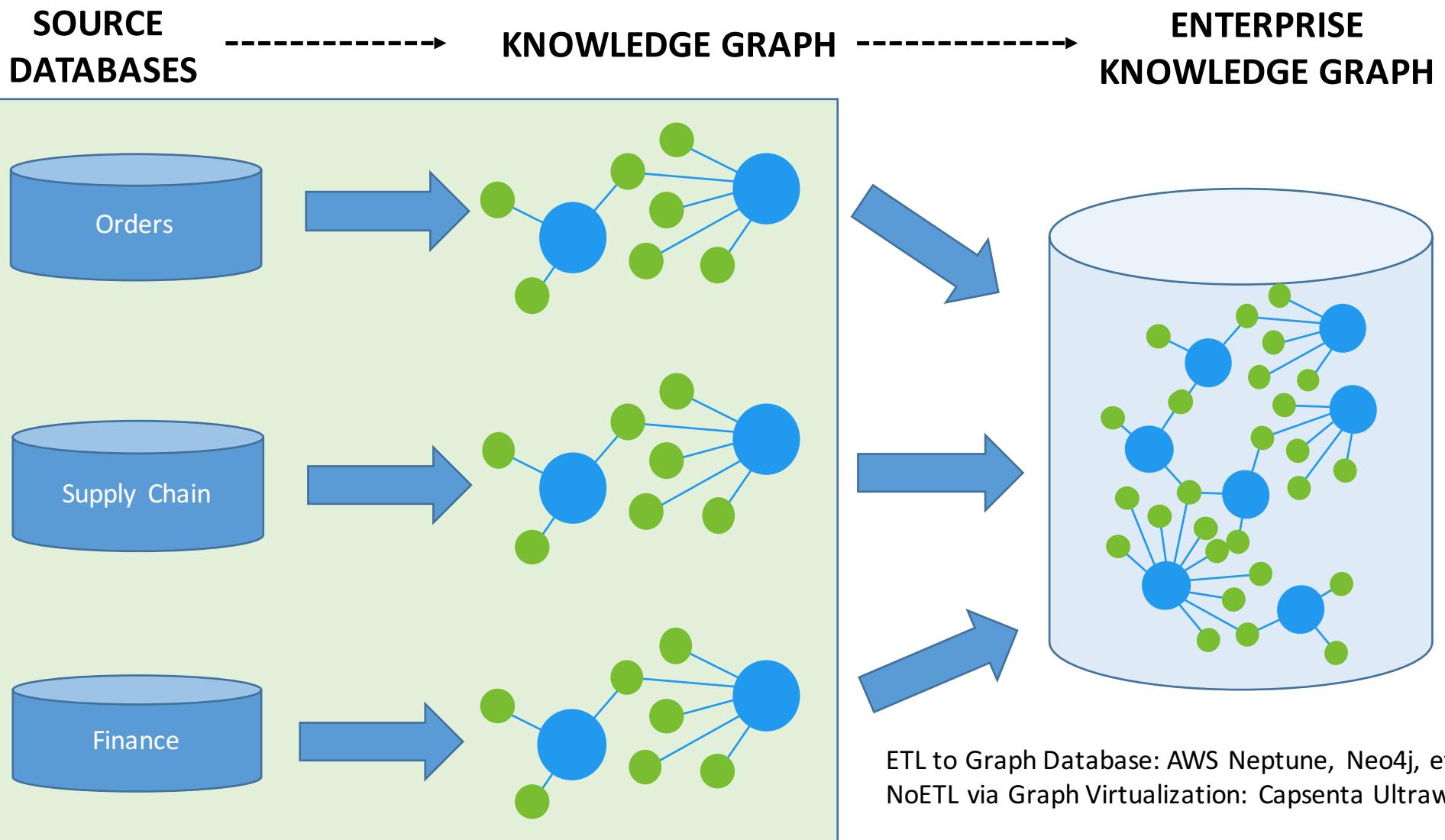
Food Discovery with Uber Eats: Building a Query Understanding Engine

By Ferras Hamad, Isaac Liu and Xian Xing Zhang

June 6, 2018

Building a food knowledge graph

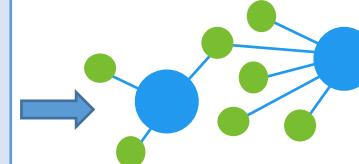
The classic approach of query understanding through text matching with natural language processing (NLP) works if the eater intent is clear and specific. But where the intent is ambiguous, such as the scenarios outlined above, applying classic NLP approaches alone is not sufficient. Of the alternative approaches we can take, most require establishing an intelligent understanding of the entities within the food domain by building a knowledge base. Many companies spend considerable time building up knowledge bases across several domains, with Google's Knowledge Vault being one of the most well-known.



DATA DRIVEN

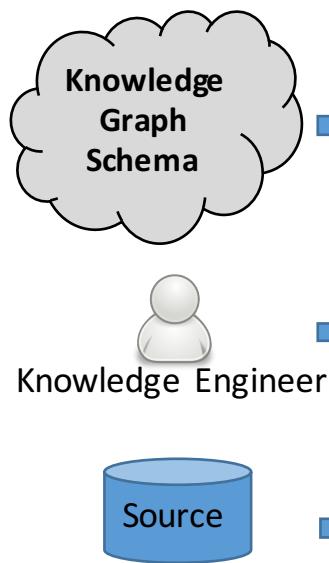


ad-hoc scripts and code



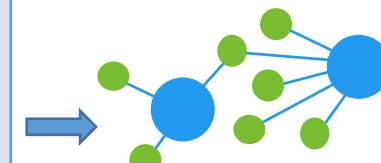
- Quick Prototype
- Hard to manage
- Messy if it goes into production at enterprise-scale

SCHEMA DRIVEN



The screenshot shows the ULTRAWRAP software interface. On the left, there's a "SOURCE DATABASE" section with a tree view of tables like "employees", "departments", and "locations". On the right, there's a "Target EKG" section with a tree view of target properties. In the center, there's a "Mapping" section where a SQL query is being mapped to a target property. The interface includes tabs for "Automatic Mapping", "Advanced Mappings", and "Manage Mappings".

Source
To
Target
Mapping



- Enterprise-scale
- Data Governance
- Declarative Mappings

How to design knowledge graph schemas?

The screenshot shows the Protege OWL2 interface with two main panels. The left panel displays the Class hierarchy for the 'Person' class, showing various subclasses like 'Agent', 'Group', and 'Thing'. The right panel shows the Data property hierarchy for the 'firstName' property, listing its annotations (rdfs:label: 'firstName', rdfs:comment: 'The first name of a person.', and rdfs:isDefinedBy: 'http://xmlns.com/foaf/0.1/'). It also shows the term status as 'testing'. Below these are sections for 'Functional', 'SubProperty Of', 'Domains (Intersection)', 'Ranges', and 'Disjoint With'.

<https://protege.stanford.edu/>

The top part of the image shows the DataStax DSE 6.0 Developer Guide with a search bar and navigation links for 'Getting started', 'Release notes', 'Installing DSE', 'Configuration', 'DSE advanced functionality', 'Tools', 'Operations', 'Studio', and 'CQL'. The 'DSE Dev 6.0' dropdown is selected. The bottom part shows a GitHub issue page for 'CIR-2018-307 "Ascii Art" graph schema #307'. The issue was opened by 'alastai' on Mar 14 and has 55 issues and 23 pull requests. It includes a detailed description of the schema and its evolution from CIR-2018-303. The right sidebar shows project details: Assignees (None), Labels (CIR), Projects (None yet), Milestone (No milestone), and Participants (2).

<https://github.com/opencypher/openCypher/issues/307>

The Graph Industry lacks tools to design Knowledge Graphs

Similar to modeling tools for the relational database industry

First Public Announcement

GRAFO

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DESIGN KNOWLEDGE GRAPHS, SIMPLY

Grafo is visual, collaborative, and real-time

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What's next

- First and foremost... Work with the community!
 - Let us know what you want: support@gra.fo
 - ...
 - And much more...!