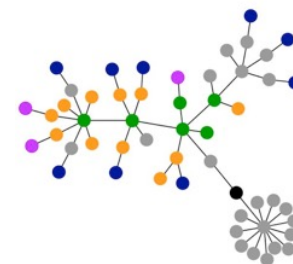


Linked Data and Graph Database Working Group

Overview for CSS 2017

New Name, Broader Scope

- Formerly “Semantic Technology”
- **Linked Data**
 - Semantic Web
 - Resource Description Framework (RDF)
- **Graph Databases**
 - Labeled Property Graphs (Neo4j)
 - Graph Visualization and Analytics
 - Process modeling, etc.



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2016 Year in Review

- **Reg2RDF**

- Project completed
- Searchable interface for regulations modeled in RDF
- 2017: Activities will continue within the FDA

- **Clinical Development Design**

- Phase I completed
- Peer-review journal white paper
- 2017: Phase II



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2016 Year in Review

- **Analysis Results & Metadata**
 - Project completed
 - Prototype: analysis results to linked data (RDF)
 - R Package, Technical Specification



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Plans for 2017 CSS



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Hands-on Workshop [New!]

- 30 Attendees (*full*)
- *Spring Room*
 - 7:30 pm start.
 - 7:20 to test login

Create and Explore Linked Data

- Neo4j Labeled Property Graph (LPG)
- RDF with ontology
- Federated query



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“Link-a-thon” [New!]

- LD&GD collaboration with ET&T Alternative Transport Format

Compare and contrast SAS v5 Transport with..

- Neo4j Labeled Property Graph
- RDF
- Others? JSON-LD, XML, stone tablets



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“Link-a-thon” [New!]

Objectives:

- Small groups of CDISC SMEs and technologists hacking, linking, and having fun
- Compare and contrast different models and technologies
- Recommendations for next steps
 - EU CSS?
 - White paper?
 - Annual Conference: Discussion Club? Other?

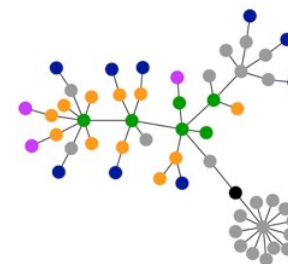


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SDTM Data as RDF [New!]

- Co-leads
 - Tim Williams , UCB Biosciences
 - Armando Oliva, Semantica LLC
- SDTM domain data ***as Linked Data***
 - “Context-free” data built on existing CDISC standards
 - Create supporting ontology
 - Validation, integrated DEFINE
 - **Create highly compliant SDTM data**



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LD & GD Schedule Overview

	MONDAY
11:00	Joint Intro Session: LD&GD with Emerging Tech Ellsworth
13:00-16:30	Linkathon Ellsworth

	Tuesday
09:00-11:00	Joint Intro Session: LD&GD with Emerging Tech Ellsworth
11:00-12:00	New Project Intro: SDTM as RDF Ellsworth
13:00-14:00	Joint Wrap Session: LD&GD with Emerging Tech Ellsworth (?)



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LD&GD Wants You!

No linked data experience? NO PROBLEM.

- Learn Linked Data as you go.
- Bring your other experience...
 - CDISC
 - R
 - Data Visualization
 - Validation
 - Study design, data collection, analysis

Ideas for New LD&GD Projects?

- Process and code dependency modeling?
- Interactive visualization of linked data?
- Metadata, traceability
- Text mining and analysis with RDF ontologies?
- Bring your ideas!

See you there!



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