Interactive Visualization of Very Large Graphs

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Challenges

• Linked Open Data initiative has made available large linked datasets that offer invaluable knowledge;
• RDF Data model has provided the standardization required;
• Information is available and of interest to a wide audience;
• Information is also inaccessible especially to people with limited knowledge of the Semantic web;
• Very large datasets with millions of nodes;
• Diverse datasets with different characteristics & data formats.
Contributions

- Innovative pre-processing technique;
- Scalability to dataset with hundreds of millions of edges;
- Interactive visualization without loss of information;
- Data exploration & navigation;
- Filtering & aggregation functions;
- No requirements regarding the input dataset;
- Available through commodity devices.
System Functionalities

• Overview of the input dataset; aggregation;
• Interactive visualization;
• Keyword search;
• Interactive keyword search;
• Customizable filtering and aggregation;
• Path navigation;
• On the fly sub-graph isolation.
Thank you

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