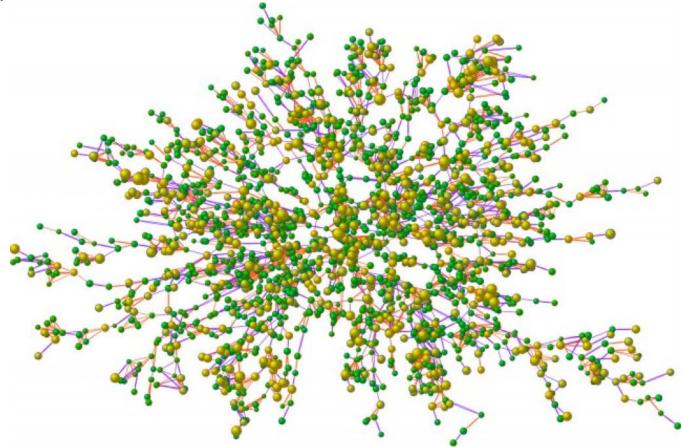
1783: Experience IBM Graph in Action

Sharyn Richard, Instructional Designer Prachi Khadke, Software Developer Kamal Shannak, Senior Development Manager October 26, 2016



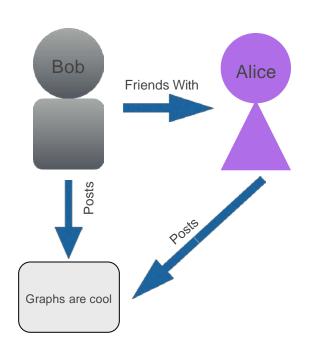
World of Watson 2016





10/26/2016

Social Network



Users

id	Name	Age	Location
1	Bob	32	Boston
2	Alice	21	San Diego

Posts

id	Post
1	Graphs are cool!

Friends

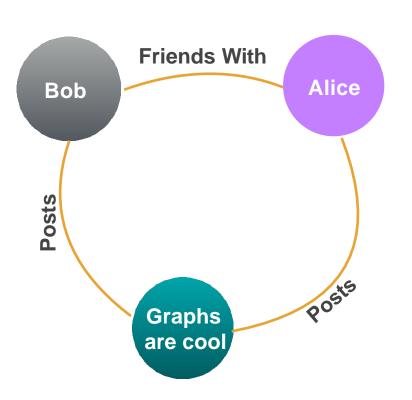
User 1	User 2
1	2

Users Posts

User	Post	
1	1	
2	1	

Graphs

A graph is a representation of a set of nodes where some pairs of nodes are connected by edges.

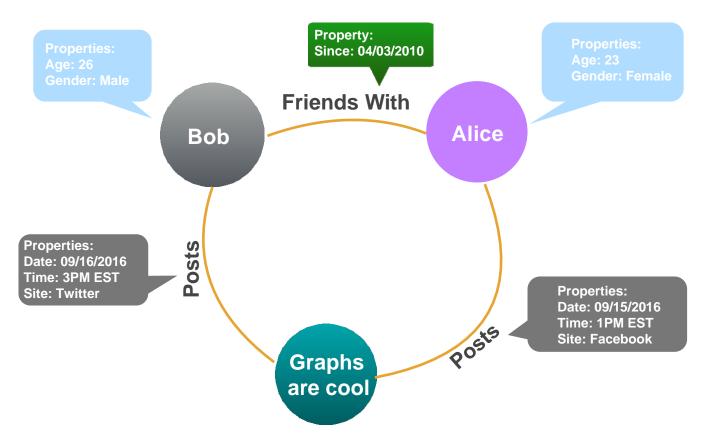


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The Big Lie Graph databases can only be used for social networks!

Graph Use Cases

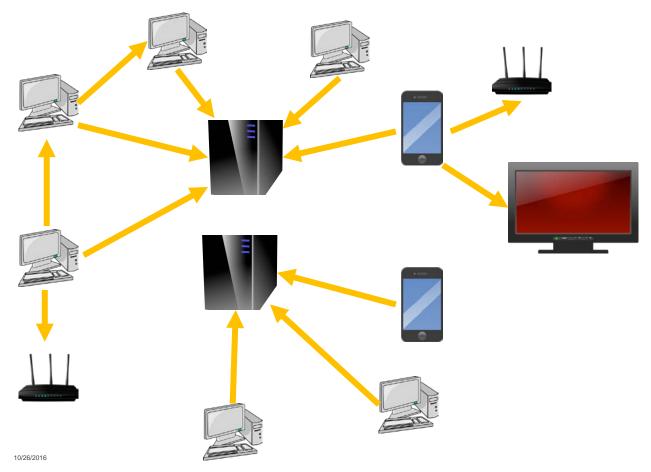
- Recommendation engines
- Anomaly/Fraud Detection
- Network Analysis/Route planning
- Social Networks
- Identity/Access Management
- Graph-based search
- Master Data Management

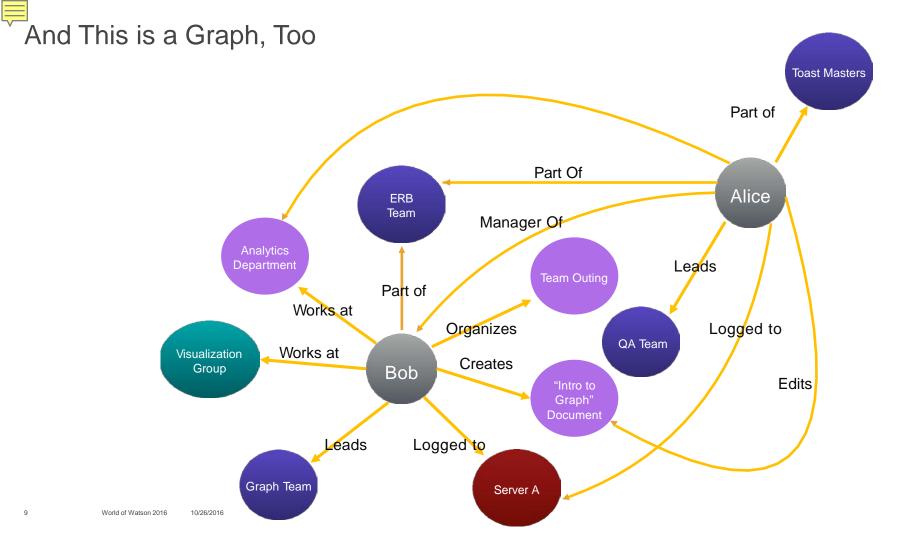
Graphs are built for complex or highly networked/ connected data.

RDBMSs are designed for ordered data or data that can be easily structured.

Graph is the 'Natural' way to represent and query connected information.

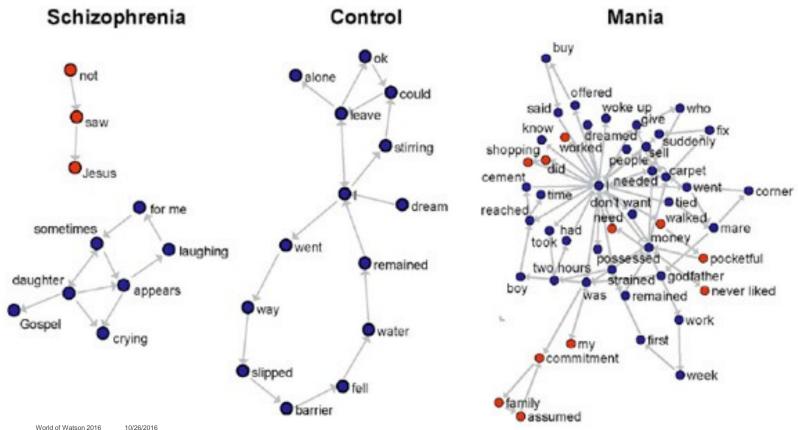
This is a Graph





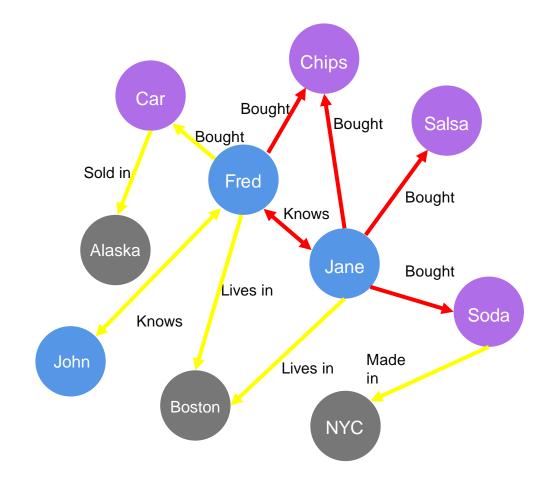


Diagnosing Psychosis With Word Analysis



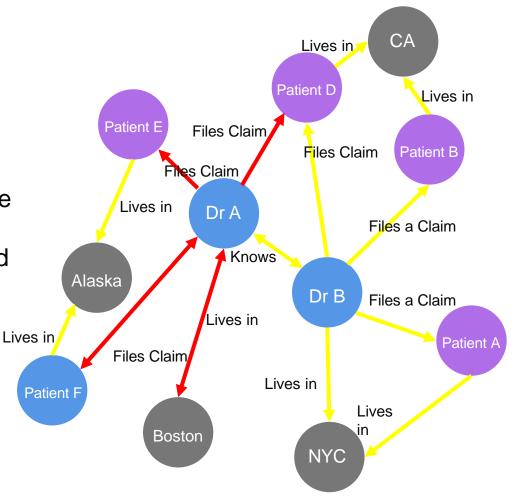


Suggest to Fred that he might like some salsa or some soda



Fraud Detection

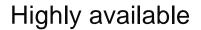
Why would a Doctor that lives in Boston be filing claims against patients in Alaska and California?













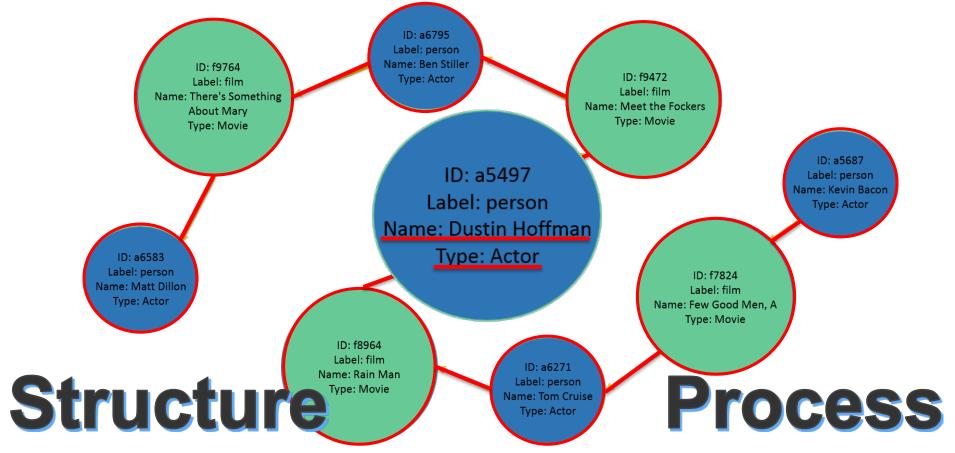
Managed 24/7



Scales seamlessly

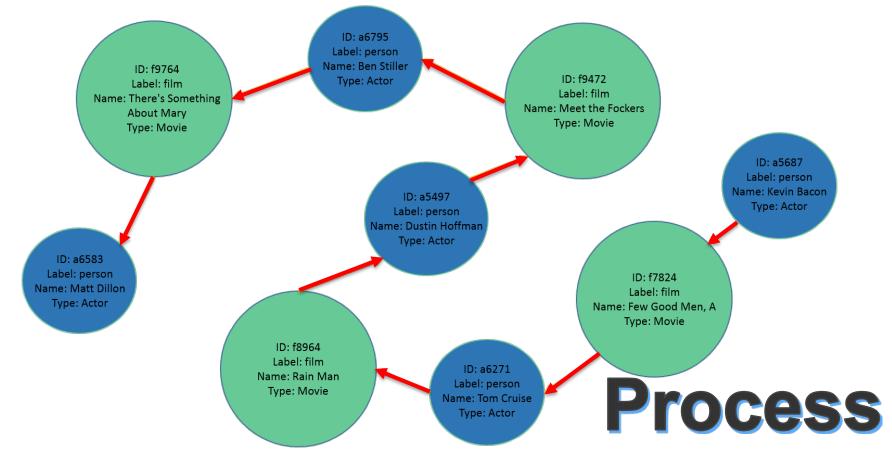


Property Graphs and Traversals





Property Graphs and Traversals







Apache TinkerPop[™] is a graph computing framework for both graph databases (OLTP) and graph analytics systems (OLAP).



Gremlin is a graph traversal language and virtual machine developed by Apache TinkerPop of the Apache Software Foundation.

Gremlin is based on Groovy and uses the same syntax.

graph.traversal().V().has('name','Alaa').outE('posts').values('comment')

Surveys/uGifting

We're all ears! How was your IBM World of Watson 2016 experience?

Let us know how we did! Complete your session surveys daily, as well as the overall conference survey, available on the IBM Events mobile app beginning Wednesday at 8:00am.

Each session survey earns you WoWBUCK\$ bringing you closer to winning an Apple TV, sponsored by Cvent. 1000 points gets you into the drawing.*

After completing the overall conference survey, Clients and IBM Business Partners* will be provided a \$20 e-voucher that can be applied toward the purchase of an item of your choice at the IBM Logo Store or the IBM Bookstore, or you can choose to donate those funds to charity.

Clients and IBM Business Partners, visit the "Redeem your gift" page in your IBM Events mobile app for full details and restrictions.

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