

# AllegroGraph News – June, 2016

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**Free Webcast: The Power of Cognitive Probability Graphs – Wednesday, June 15, 2016 – 10:00 AM Pacific**



Graphs and Artificial Intelligence have long been a focus for

Franz Inc. and currently we are collaborating with Montefiore Health System, Intel, Cloudera, and Cisco to improve a patient's ability to understand the probabilities of their future health status. By combining artificial intelligence, semantic technologies, big data, graph databases and dynamic visualizations we are deploying a Cognitive Probability Graph concept as a means to help predict future medical events.

The power of Cognitive Probability Graphs stems from the capability to combine the probability space (statistical patient data) with a knowledge base of comprehensive medical codes and a unified terminology system. Cognitive Probability Graphs are remarkable not just because of the possibilities they engender, but also because of their practicality. The confluence of machine learning, semantics, visual querying, graph databases, and big data not only displays links between objects, but also quantifies the probability of their occurrence.

We believe this approach will be transformative for the healthcare field and we see numerous possibilities that exist across business verticals.

During the presentation we will describe the Cognitive Probability Graph concepts using a distributed graph database on top of Hadoop along with the query language SPARQL to extract feature vectors out of the data, applying R and SPARK ML, and then returning the results for further graph processing.

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**Franz Inc. named to KMWorld Magazine's 2016 "100 Companies that Matter in Knowledge Management"**



As knowledge management evolves, so does their list of 100 Companies That Matter in KM. Featuring basic imaging technology when it was first published years ago, the list has expanded to include a galaxy of technologies and capabilities to meet the knowledge needs of a mobile workforce. Whether the designated companies specialize in collaborative, cloud or cognitive computing or a host of other categories, their solutions represent the best in innovation, creativity and functionality.

As the definition of knowledge management has changed over the years, so too has the list, including both familiar companies that have appeared multiple times and first-time recipients of the coveted designation. New or well known, all the companies offer solutions designed to help users and customers find what they need whenever and wherever they need it... and what they need is the ability to access, analyze and share crucial knowledge.

Read the full article here.

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**Bloor Group's Inside Analysis article – How Many Trips to the ER Does It Take?**



THE BLOOR GROUP

The Precision Medicine Initiative (PMI), announced last year, seeks to leverage big data to better understand the relationships between people, disease and other factors and harness that information to make individualized diagnoses and treatments. Although it's a top-down initiative, it's up to the health networks themselves to develop and implement the technology.

No relational database could manage a spread of structured data, unstructured data, images, clinical narratives, geolocation data, etc. Such enormous volumes of complex data seem destined for Hadoop or a data lake. However, the most feasible way to understand patterns and relationships buried in this data is by using semantic graph analytics.

One of the collaborations poised to capitalize on the PMI is Montefiore Medical Center and Franz Inc. They have teamed up (along with Intel, Cloudera, and Cisco) to create a Semantic Data Lake (SDL) for healthcare, helping to make precision medicine accurate and reliable. At the core of the SDL is Franz's flagship product, AllegroGraph, a semantic graph analytics product integrated with Hadoop.

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**Franz's CEO, Jans Aasman's Presentation at EDW – Healthcare Analytics with an Enterprise Data Lake**



Montefiore Medical Center in collaboration with Franz, Intel, Cloudera and Cisco created a scalable and extensible Learning Healthcare System platform for accountable care and precision medicine initiatives. We call the underlying Hadoop based big data platform a “Semantic Data Lake” (SDL). The SDL integrates complex information and analytic requirements including basic science, clinical, population, community, environmental, behavioral, and wellness research data.




The SDL links and fuses domain specific models (ontologies), biomedical terminologies and taxonomy systems, and other contextual metadata with ERP data, Electronic Medical Records, and medical device data in massive volumes. The SDL provides a uniform, semantically integrated, self-descriptive information repository based on graph representations of multi-source, heterogeneous data (including free text clinical narratives).

Montefiore uses this platform for scalable knowledge-based analytics for classification, pattern recognition, predictive modeling, and simulations. We will demonstrate how we can create smart applications for decision support, fraud detection, risk management, personalized care management, signal detection and notifications.

To read more and watch the recorded video, see [here](#)

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**[Recent Articles about Franz – AllegroGraph](#)**

	<ul style="list-style-type: none"> <li>• TechTarget article – TechTarget article – Semantic graph database underpins healthcare data lake</li> </ul>
	<ul style="list-style-type: none"> <li>• Computer Technology Review article – Cognitive Computing is Turning Precision Medicine into a Reality</li> </ul>
	<ul style="list-style-type: none"> <li>• Information Management article – The Unparalleled Utility of Graph Databases</li> </ul>

## AllegroGraph Docker – Updated version available



An updated version of the AllegroGraph Docker container is now available on Docker Hub.

Docker containers have similar resource isolation and allocation benefits as virtual machines but a different architectural approach allows them to be much more portable and efficient.

Running AllegroGraph in a Docker container on Mac OS X and Windows






is as easy as:







- Install Boot2Docker/Docker
- Install and run AllegroGraph
- Install Gruff

Linux users can use the same container, but do not need *boot2docker*.

To read more, see [here](#)

## Brief Customer and News Highlights

	<p><b>We are Hiring!</b></p>
	<p>2015 HiMSS Conference, Intel’s Healthcare Panel, Parsa Mirhaji, MD, PhD, the Director of Clinical Research Informatics at the Montefiore Medical Center discusses their Semantic Data Lake and technical partnerships with Intel and Franz Inc. and Intel – Cisco presenting Franz’s Semantic Data Lake Analytics at HIMSS 2015</p>
	<p><b>Bloor Research Positions AllegroGraph as a “Champion”.</b> Click on the image to enlarge.</p>
	<p>Franz was named as one of 21 NoSQL Innovators to Look for in 2020, in a post on The Wikibon technology research and advisory website because of its flagship RDF and Graph Database product, AllegroGraph.</p>
	<p>Graph databases, like AllegroGraph, are one of the new technologies encouraging a rapid re-thinking of the analytics landscape. By tracking relationships – in a network of people, organizations, events and data – and applying reasoning (inference) to the data and connections, powerful new answers and insights are enabled...</p> <p>Wolters Kluwer Presentation: “How does Linked Open Data change the Publishing Landscape?”</p>

	<p>Recorded Webcast – Haystax presents: Advanced Analytic Techniques for Insider Threat Detection</p>
	<p>The Malaysian State of Sabah’s Biodiversity Center’s (SaBC) is using AllegroGraph to run the Sabah Biodiversity Integrated Information System (SaBIIS) AllegroGraph is the centralized RDF database used to integrate and store biodiversity data coming from more than 20 organizations that collect specimen data in different formats and schemas.</p> <p>Read the press release here.</p>
	<p>KRSTE.my (Knowledge Resource for Science and Technology Excellence, Malaysia) is an initiative, based on AllegroGraph, by MOSTI and spearheaded by MASTIC to address science and technology issues and challenges faced by the community, the ministry and the country. KRSTE.my is designed to be a Single Point Access Facilities (SPAF) providing intelligent collaborative knowledge management and learning services platform on Science and Technology and Innovation. More info here.</p>
	<p>Information Management article – Why Data Lakes Require Semantics</p>
<p>Inside Analysis</p>	<p>Inside Analysis article – Events that Change the World</p>
	<p>Datanami article – Multi-Dimensional Graph Data Opens the Door to New Applications</p>
	<p>Datanami article – Hadoop, Triple Stores, and the Semantic Data Lake</p>

Recorded past Semantic Technologies Webinars: Recorded Webinars