Neo4j Graph Analytics
Your Path to Intelligent Applications

Connectivity is the single most pervasive characteristic of today’s networks and systems. From protein interactions to power grids, from the World Wide Web to airline routes and from social networks to supply chains – networks with even a modest degree of complexity are not random, which means connections are not evenly distributed or static. This is why simple statistical analysis alone fails to sufficiently describe, let alone predict, the behavior of connected systems. Consequently, most big data analytics today do not adequately address real-world systems and have fallen short in extracting value from our huge volumes of connected data.

As the world becomes increasingly interconnected and systems increasingly complex, it’s imperative we use technologies built to leverage relationships and dynamic characteristics. It’s no wonder that interest in graph analytics has exploded: Graph analytics were explicitly developed to evaluate connected data. They can reveal the workings of intricate systems and networks at massive scales—for not only large labs but for any organization.
Embracing Graph Analytics

Graph analytics were designed to examine the overall nature of networks and complex systems through their connections. Understanding real-world networks and their dynamics offers immense value for breakthroughs in science and business as well as safeguards against vulnerabilities, especially those unforeseen.

Unfortunately it’s been impractical for businesses to capitalize on graph analytics. What’s been missing is a connections-first approach where the value of data relationships is never lost and a democratization of graph analytics that frees teams to explore meaning and develop solutions without the burden of unoptimized infrastructure, complicated tools or unattainable specialists. Organizations mired with cumbersome and outdated methods for analyzing systems will continue to overlook opportunities, react late to business dynamics and make costly mistakes.

Alternatively, when teams leverage graph analytics that are powerful, easy to use, and accessible, they will make new discoveries, develop solutions faster and have clear, efficient paths to operations. Embracing more practical graph analytics will enable you to demonstrate a clear information advantage and industry influence.

Reveal New Insights
Understanding how networks and complex systems operate, your teams will uncover previously hidden relationships and patterns, leading to new insights and discoveries as well as superior real-time operations.

Build Intelligent Applications Faster
Greatly increase the productivity of data scientists and solutions teams by deploying integrated methods for testing hypotheses and developing prototypes – especially important for these highly iterative processes. You can also immediately assess results and make refinements when you integrate real-time transactional data into your analysis.

Streamline Your Path to Success

“Graph analysis is possibly the single most effective competitive differentiator for organizations pursuing data-driven operations and decisions.”

– Gartner Research
The major areas of Artificial Intelligence are, “speech, NLP, computer vision, machine learning, [and] knowledge graph.”

– Andrew Ng, CSO Baidu
Neo4j is the graph company behind the #1 platform for connected data. The Neo4j graph platform helps organizations make sense of their data by revealing how people, processes and digital systems are interrelated. This connections-first approach powers intelligent applications tackling challenges such as artificial intelligence, fraud detection, real-time recommendations and master data.

The company boasts the world’s largest dedicated investment in native graph technology, has amassed more than eight million downloads, and has a huge developer community deploying graph applications around the globe.

Questions about Neo4j?
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