

A Look at the Graph Database Landscape

Graph databases are the fastest growing category in all of data management (DB-Engines). As they have become a mainstream technology used by enterprises in every industry and sector, graph databases have evolved into several different subcategories that are being used for different types of applications.

Graphs offer clear advantages for overcoming large and complex data challenges, compared to other solutions. Benefits include being faster for related data sets, ability to scale more naturally to large data sets, and flexibility for evolving data structures.

The emergence of new players to the market has created a bonafide landscape of tools and technologies. The following provides a look at the graph database landscape, defined by categories and leading solutions.

OPERATIONAL GRAPH DATABASES

DBMS products suitable for a broad range of enterprise-level transactional applications.



TITAN



MULTI-MODAL GRAPHS

Encompasses databases designed to support different model types.



Azure Cosmos DB



REAL-TIME BIG GRAPHS

Enables real-time large graph analysis with both 100M+ vertex or edge traversals/sec/server and 100K+ updates/sec/server.



KNOWLEDGE GRAPH / RDF

Provides a general method for modeling of syntactic and inference information.



ANALYTIC GRAPHS

Focused on solving complex analytical problems, but not in real time.

