

Routing & Graph Algorithms in the database

Overview

pgRouting extends the PostGIS/PostgreSQL geospatial database providing geospatial routing and other graph algorithms functionality.

pgRouting is implemented in C++, using C++ Boost Graph library.

Using it, is with SQL queries.

Core Features

pgRouting implements a variety of graph algorithms.

Some of the most used algorithms are:

- Dijkstra Algorithm
- Driving Distance
- Johnson's Algorithm
- Floyd-Warshall Algorithm
- A* Algorithm
- Bi-directional Dijkstra
- Bi-directional A*
- Traveling Sales Person
- Flow Analysis
- Graph analytics

Software

- **pgRouting postgresQL extension**
Query the database for routes.
- **osm2pgrouting**
Import OpenStreetMap data to a pgRouting database
- **pgRoutingLayer**
Qgis plugin for simple routing queries

