Graph traversal Algorithms

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What is graph traversal algorithms?

Graph traversal algorithms are a set of techniques used to visit all the nodes or vertices in a graph.

why graph traversal algorithms?

It is use to solve some of problems that need to analyzing or manipulating graph data and applications such as route planning and network analysis.

Type of graph traversal algorithms:

There is many type but the main categories or famous is depth-first search (DFS), and breadth-first search (BFS) and A*.

Breadth-first search (BFS): This algorithm visits all the nodes before moving on to the next level of nodes line by line.

Depth-first search (DFS): This algorithm is based on the idea of exploring as far as possible along each branch before back.

A* search algorithm: This is a heuristic search algorithm, where the priority of a node is based on a heuristic function that estimates the distance to the goal node,

It is very use in pathfinding system.