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Representations of Graphs DSA



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Graph Data Structure
: Its Types and...

GeeksforGeeks

Graph and its
representations

In Data Structures and Algorithms (DSA), **graph representations** are methods used to store graph data in memory efficiently. The most common graph representations are **adjacency matrix** and **adjacency list**, each with its own strengths depending on the graph's size and structure. w3schools +2

Adjacency Matrix Representation

An **adjacency matrix** is a 2D array of size $V \times V$, where V is the number of vertices in the graph.

If there is an edge between vertex i and vertex j , the matrix entry $A[i][j]$ is 1 (or the weight of the edge in weighted graphs); otherwise, it's 0.

+1

Example for an undirected graph:

	A	B	C
A	0	1	0
B	1	0	1

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