Reviewing Key Terms

1 min

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[Graphs](#)

are an essential data structure in computer science for modeling networks. Let's review some key terms:

- vertex: A node in a graph.

- edge: A connection between two vertices.

- adjacent: When an edge exists between vertices.

- path: A sequence of one or more edges between vertices.

- disconnected: Graph where at least two vertices have no path connecting them.

- weighted: Graph where edges have an associated cost.

- directed: Graph where travel between vertices can be restricted to a single direction.

- cycle: A path which begins and ends at the same vertex.

- adjacency matrix: Graph representation where vertices are both the rows and the columns. Each cell represents a possible edge.

- adjacency list: Graph representation where each vertex has a list of all the vertices it shares an edge with.

Instructions

Graphs are one of the most common data structures in computer science. Modeling complex problems with a graph is essential for a career in software development.