

Trees Introduction

1 min

Trees are an essential data structure for storing hierarchical data with a directed flow.

Similar to linked lists and

Preview: Docs Graphs are a way of modeling systems based on a node and edge structure for representing the relationships between items.

[graphs](#)

, trees are composed of nodes which hold data. The diagram represents nodes as rectangles and data as text.

Nodes also store references to zero or more **other tree nodes**. Data moves **down** from node to node. We depict those references as lines drawn between rectangles.

Trees are often displayed with a single node at the top and connected nodes branching downwards.

Instructions

A company's organization chart or a computer's file directory are both real-world examples that can be represented as trees.

Can you think of other hierarchical relationships?

How would you represent a genealogy chart?

