

Topics

Graph and Tree Visualization

- · Tree Layout
- · Graph Layout

Goals

- Overview of layout approaches and their strengths and weaknesses
- Insight into implementation techniques

Graphs and Trees

Graphs

- · Model relations among data
- Nodes and edges



Trees

- · Graphs with hierarchical structure
 - · Connected graph with N-1 edges
- · Nodes as parents and children



Spatial Layout

The primary concern of graph drawing is the spatial layout of nodes and edges

Often (but not always) the goal is to effectively depict the graph structure

- · Connectivity, path-following
- · Network distance
- $\cdot \ \mathsf{Clustering}$
- · Ordering (e.g., hierarchy level)