



# 大数据可视化

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# 网络和层次化数据可视化



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Everything can be a graph!

The images illustrate various applications of graph theory:

- Top Left: A network of human silhouettes connected by lines, representing a social network.
- Top Middle: A map of Puget Sound showing a complex network of roads and bridges, representing a transportation graph.
- Top Right: A screenshot of a search engine results page for "graphs and trees", showing various links and images related to graph theory.
- Bottom Left: A screenshot of a code editor showing C# code for a `PaintCanvas` class, illustrating a graph structure used for a drawing application. The code includes a `history` list and methods for `undo`, `clear`, and `addPaintObject`.
- Bottom Right: A diagram of a brain with nodes and connecting lines, representing a neural network or cognitive graph.



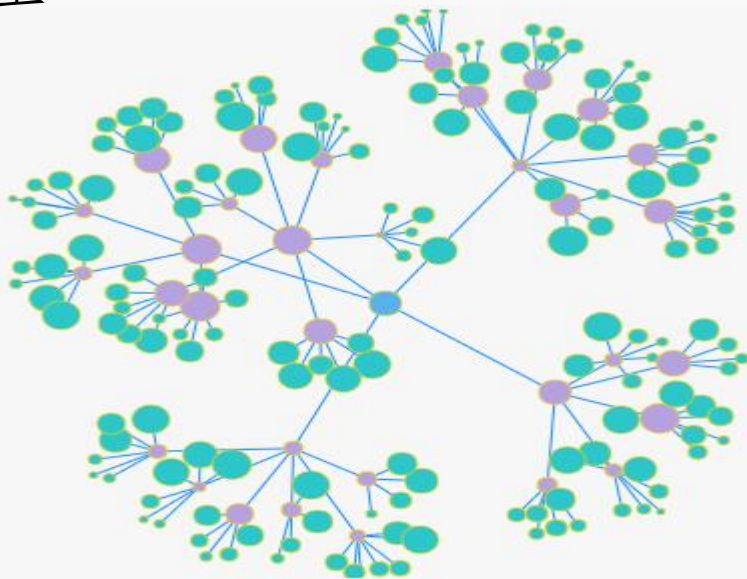
# 网络和层次化数据可视化

- 网络数据可视化主要关注节点和链接在空间的布局
- 目标是有效地呈现网络结构，包括
  - 连接模式
  - 网络的结点划分和网络中的簇形成
  - 网络异常点



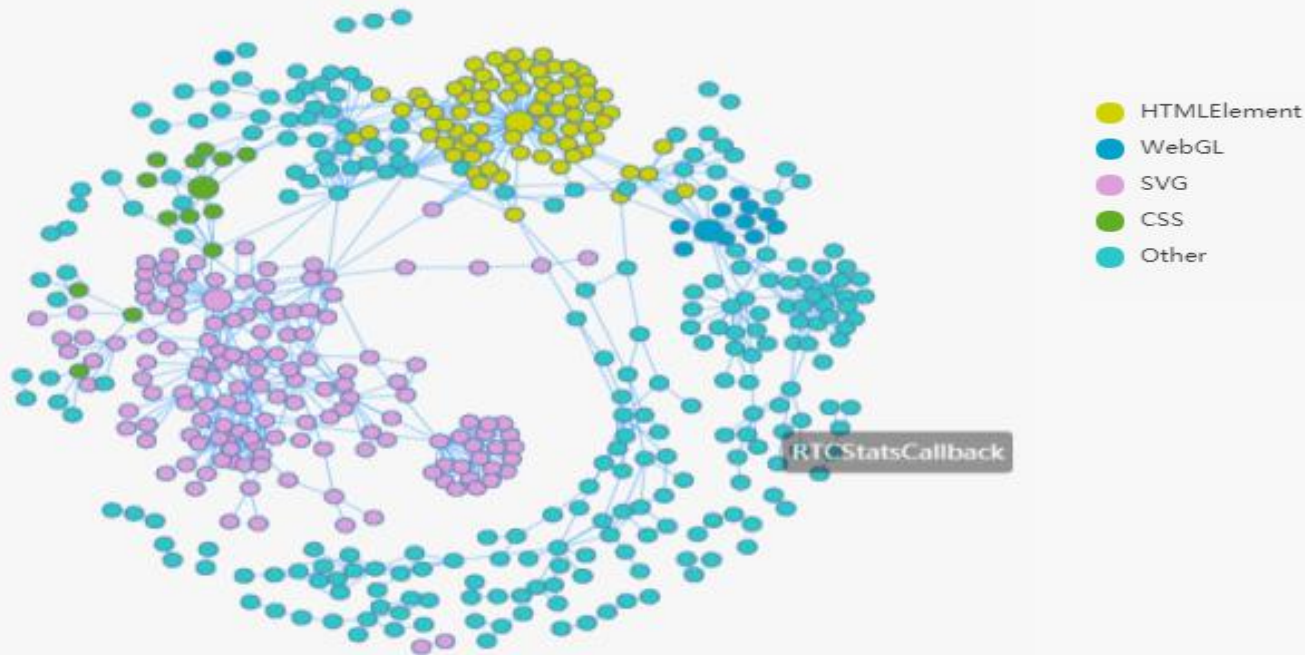
# 网络和层次化数据可视化

- 力导图原理





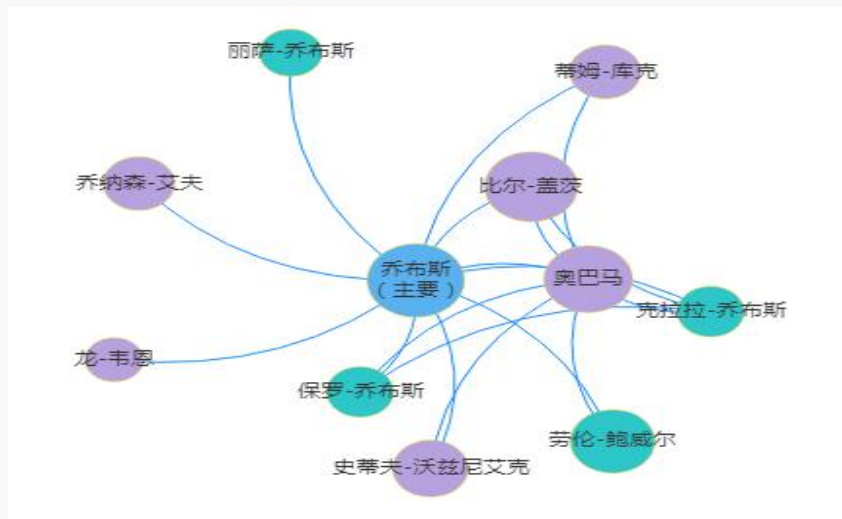
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# 网络和层次化数据可视化

- 小说中的人物关系

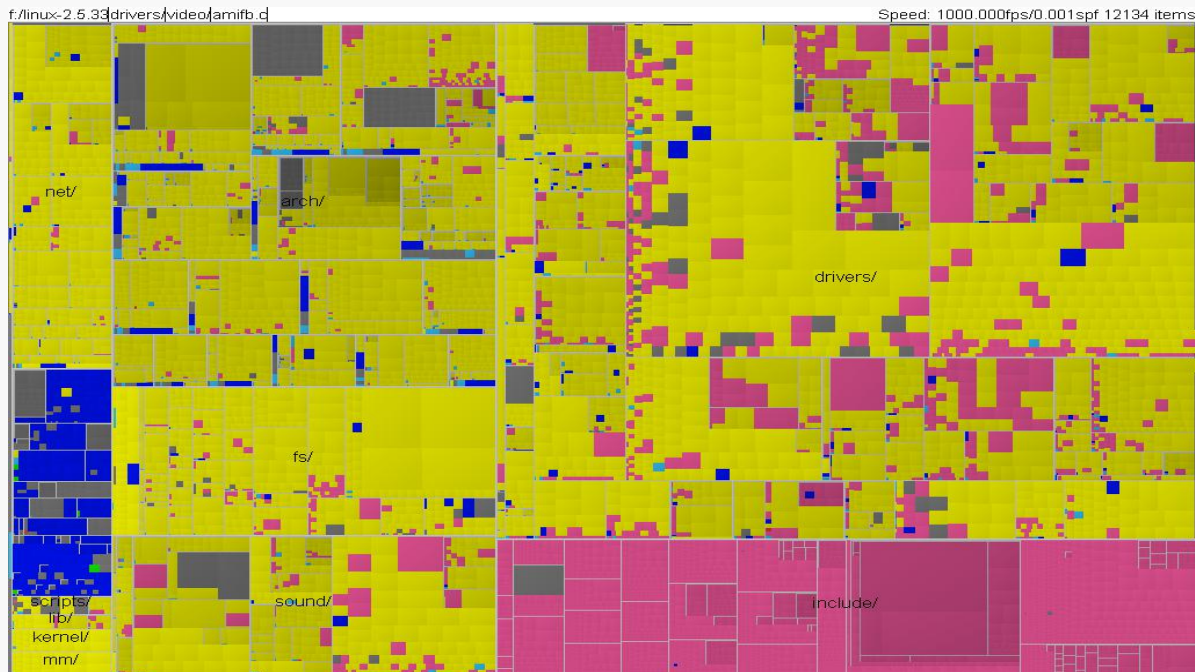






# 网络和层次化数据可视化

- TreeMap







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