Editing and Exploring Node-Link Diagrams on Pen- and Multi-Touch-operated Tabletops

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This project addresses the design of interaction techniques for the creation and manipulation of node-link diagrams on multi-touch and pen enabled displays. Analysis and creation of node-link diagrams is an important activity, and one that can benefit greatly from the enhanced interaction bandwidth and collaborative affordances of interactive tabletops.

The applications that we will demonstrate implement a broad set of novel interaction techniques for editing and manipulating node-link diagrams. Some techniques have been implemented with hybrid input (pens + touch), and allow flexible creation and manipulation of elements. Other techniques are meant to support users analyze diagrams. For example, by *strumming* edges, it is easy to see what nodes are connected by the edges.