

# Master's Thesis: Beautify Graph Representation of Visual Languages: Generating Layouts for Connections

- The **Eclipse Layout Kernel** provides a set of algorithms for automatically laying out graphs
  - Used by many tools for visual programming languages and graph representation
  - Currently all provided algorithms arrange **nodes and edges freely**
- Users often want to place their nodes and let the layout algorithm only route the connections around them
- **Goal**
  - Extend the Eclipse Layout Kernel with an edge only layout algorithm
- **Tasks**
  - Evaluate existing edge only layout algorithms
  - Implement one algorithm
  - Evaluate with Eclipse 4diac IDE
- This thesis is conducted in collaboration with the University of Kiel

