Visualizing Graphs in GT

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Goal
Approach
Graphviz4GT Package
Challenges

• Universal Foreign Function Interface

• Scaling Graphs
Demonstration

- Code at https://github.com/rafibu/Graphviz4GT
Further advances

• Library for Windows
• Scaling for bigger Graphs
• Curved Edges
• Grouping Nodes in a Graph
• Automatically detecting optimal layout
Implemented Graph Visualization for GT by:

- Creating a .Dot file describing the graph
- Calling graphviz through a FFI
- Parsing graphviz's description of the graph
- Returning this new graph