In this talk we present:

**Constraint-based Graph Layout**

- **Separation constraints:** $x_1 + d \leq x_2$, $y_1 + d \leq y_2$
  - Applications of constrained graph layout
  - IPSep-CoLa

**More applications**

- Prevent overlaps between labels in MDS plots (DMDS)
- Non-overlapping clusters

**Conclusion**

- Separation constraints allow us to impose application-specific requirements on stress-majorization layout
- We can do a lot of new things that previously could only be approximated with potentially unstable springings
- You can download an LGPLed C++ library implementation (arapagrams.sf.net), or play with it in Inkscape (www.graphviz.org) or Inkscape (www.inkscape.org)

- We'd love to collaborate with you to find more applications
  - contact: Tim.Dwyer@infotech.monash.edu.au