

InfoVis in SciVis

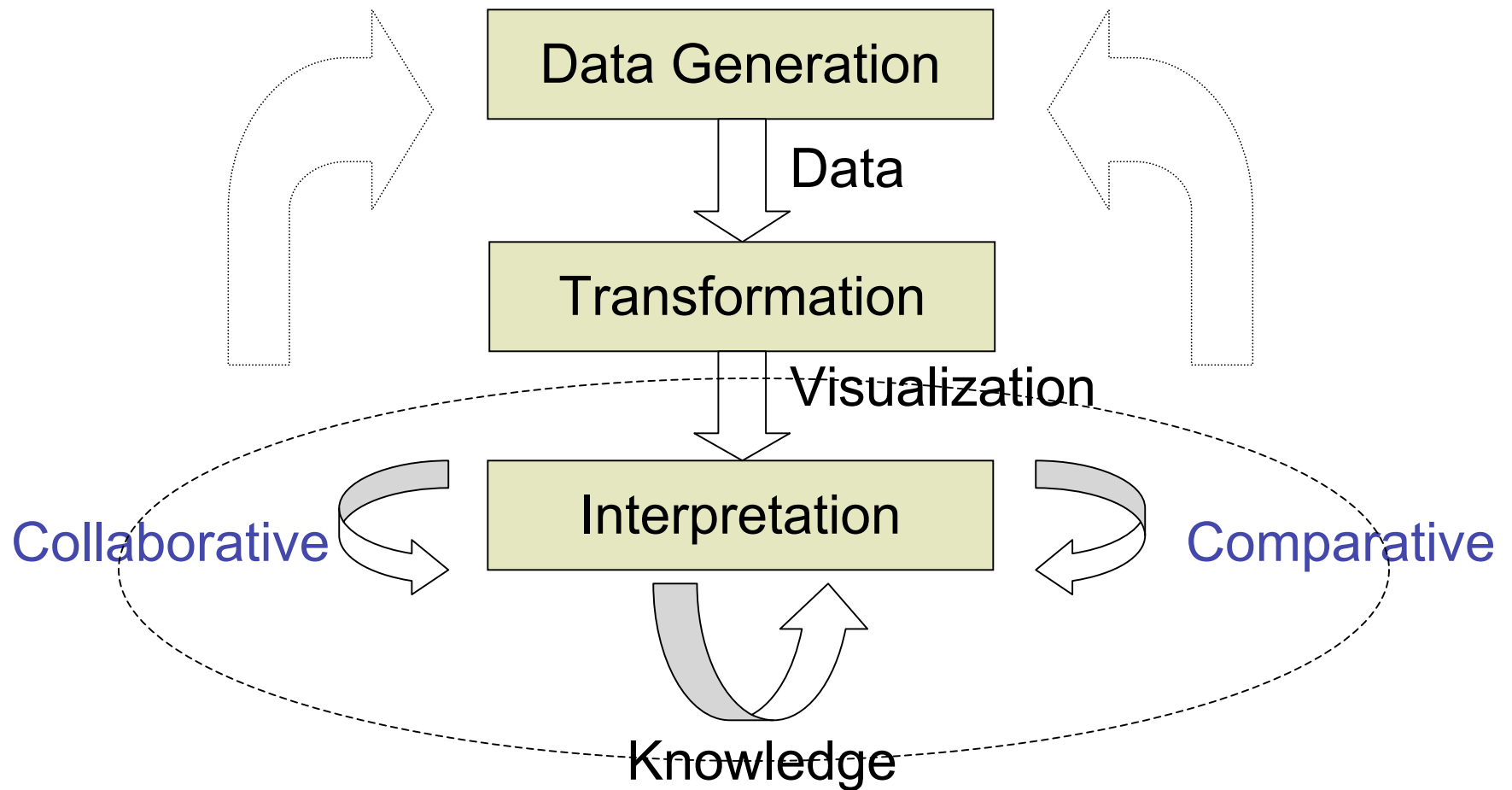
Kwan-Liu Ma



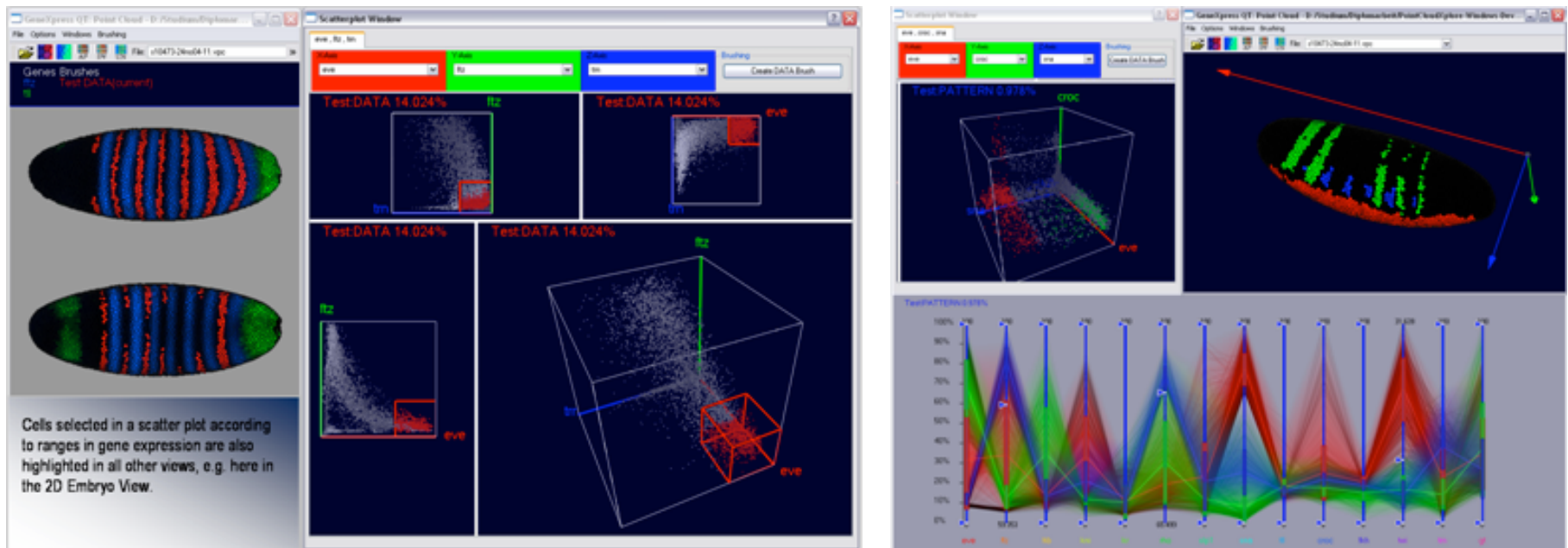
SciVis and InfoVis

- The distinction between SciVis & InfoVis seems to be clear and accepted
- SciVis: Physical things
- InfoVis: Concepts, relations, or trends that are more abstract, high dimensional
- SciVis does not meet the overall data analysis and understanding need in scientific studies

Scientific Data Analysis

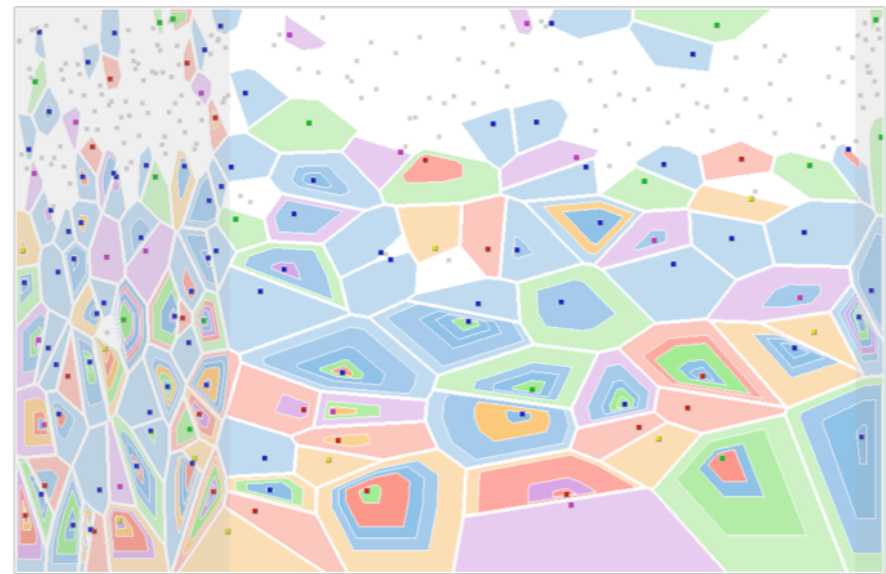
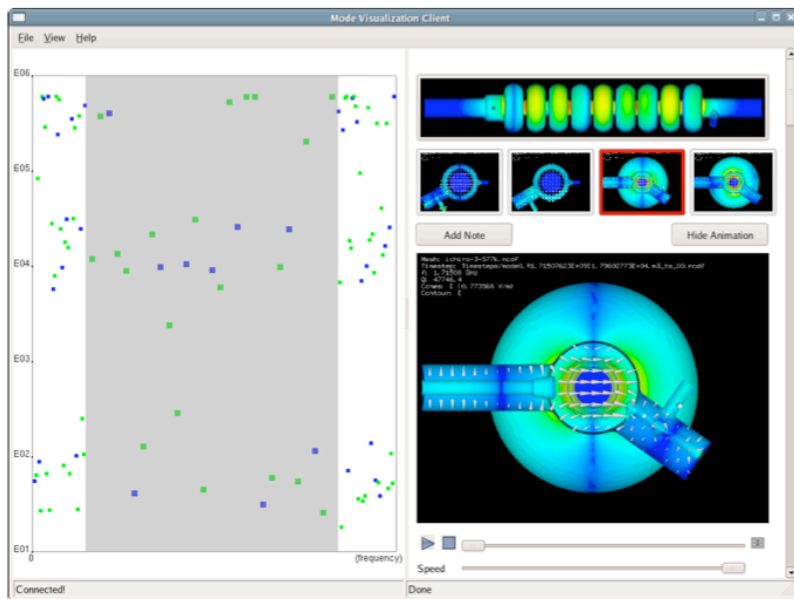


SciVis as Comparative Vis



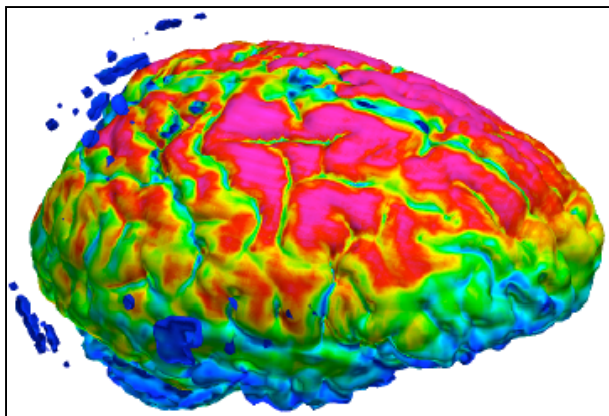
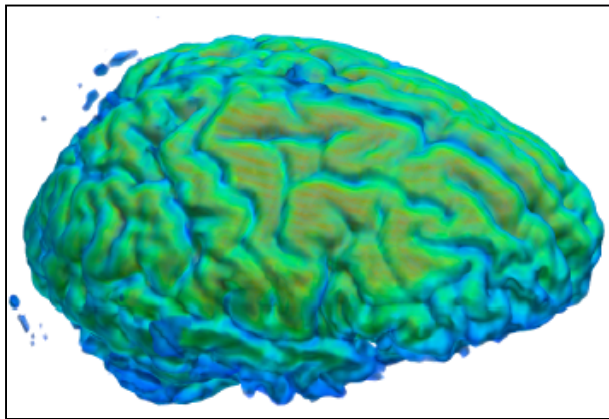
Drosophila Gene Expression Visualization, G. H. Weber et al.

SciVis as Collaborative Vis

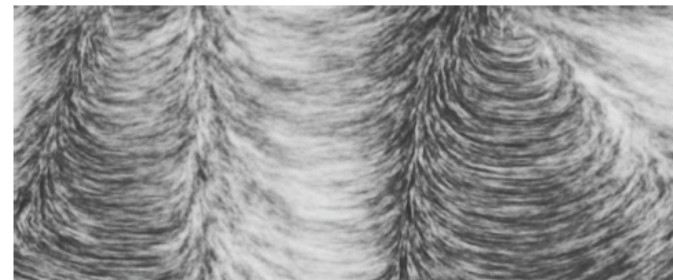
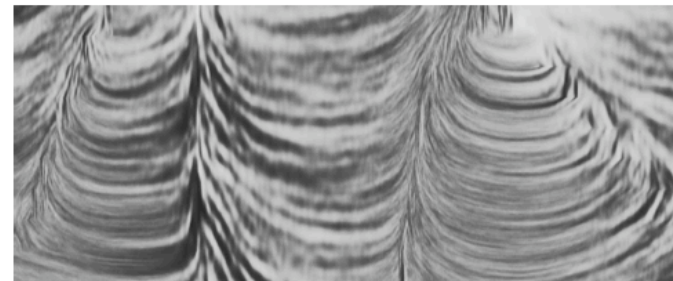


Notes Visualization, Y. Wang, J. Shearer, and K.-L. Ma

SciVis as an Uncertainty Problem

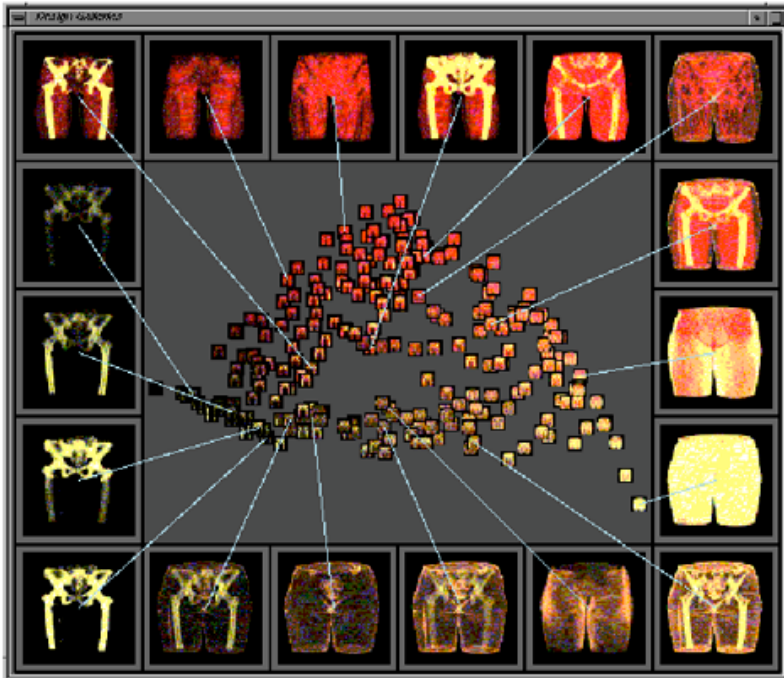


F. Tzeng and K.-L. Ma

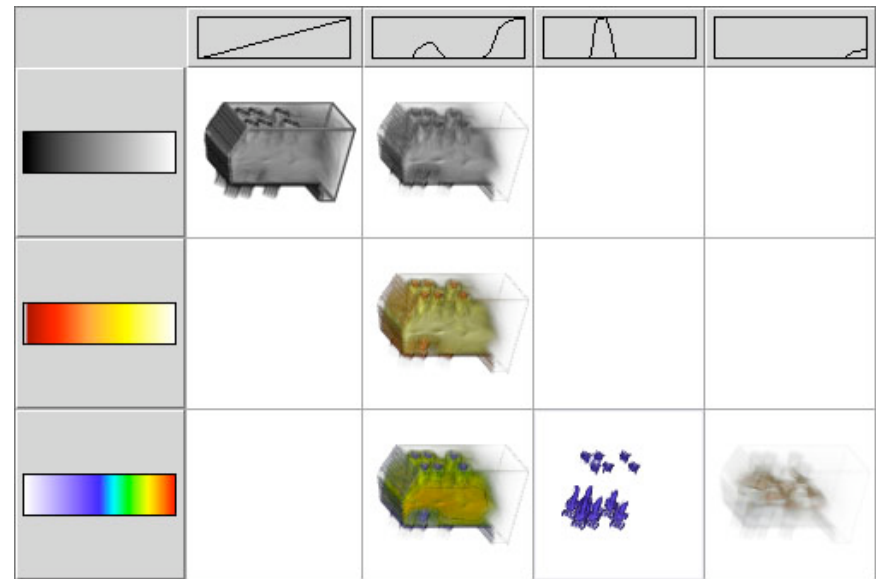


R. Botchen, D. Weiskopf, T. Ertl

SciVis as Searching

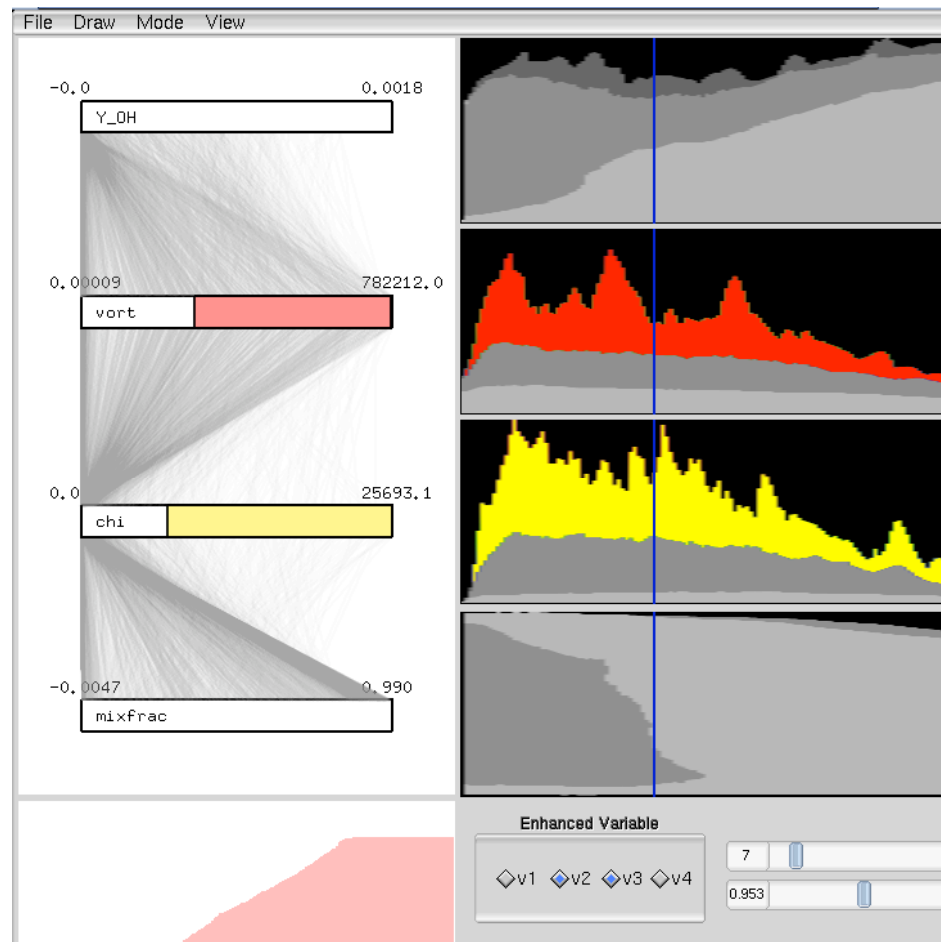


Design Galleries, J. Marks et al.
SIGGRAPH '97



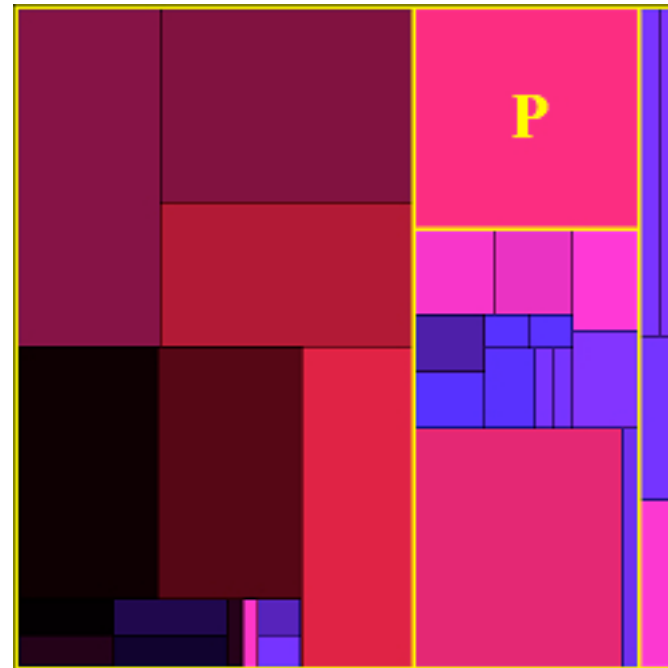
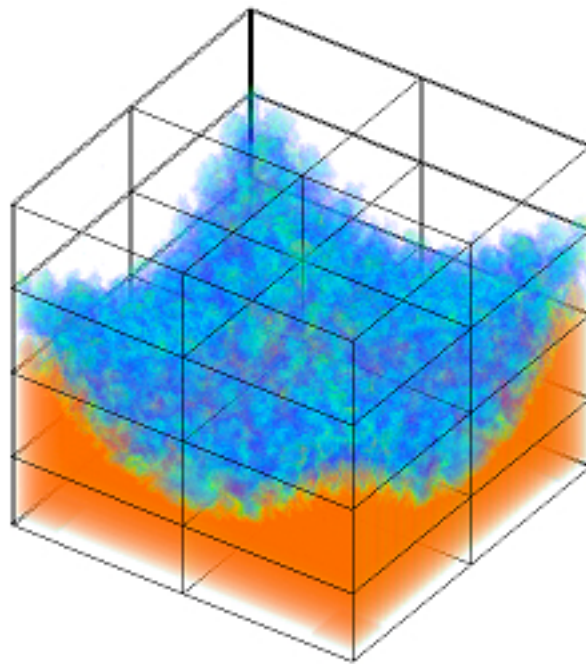
VisSheet,
TJ Jankun-Kelly and K.-L. Ma

SciVis as Multivariate Vis



Multivariate Vis UI, H. Akiba and K.-L. Ma

SciVis as Navigating in a Multiresolution Space



C. Wang and H.-W. Shen

InfoVis in SciVis

- relationships, trends, processes are also of interest
- the data is high dimensional
- the purpose is to illustrate
- the study is comparative in nature
- the work is collaborative
- the visualization process becomes sophisticated and tedious
- uncertainty is a concern
- ...

Join me to work on the infoVis
aspects of SciVis problems!