

Gordon Kindlmann

PhD (finishing) Computer Science, University of Utah

Interested in methods for "looking at" DT-MRI data and visually communicating its structure

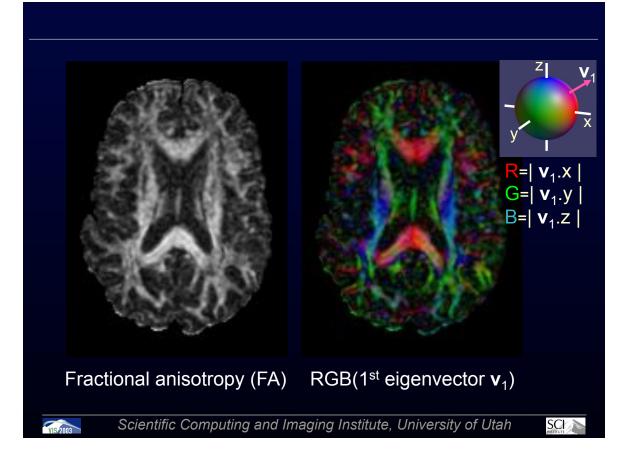
Idea: two aspects of what's called "visualization"

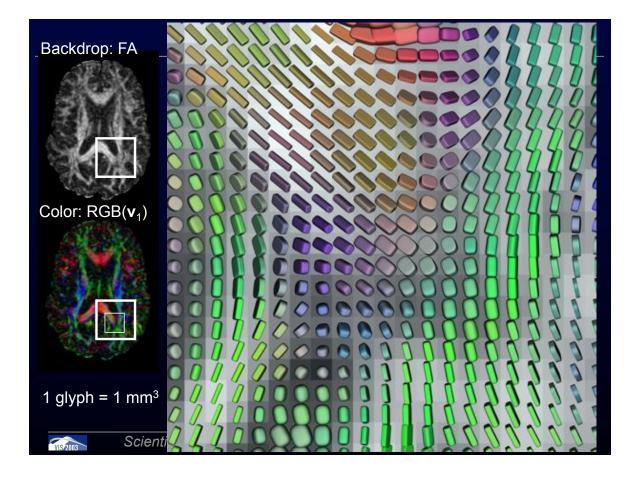
- · Acquisition: get the data
- Inspection: "Show me the data" verify data integrity, coordinates, and layout
- Visualization: "Show me the structures" depict the form and character of features in the data
- Analysis: extract and quantify features

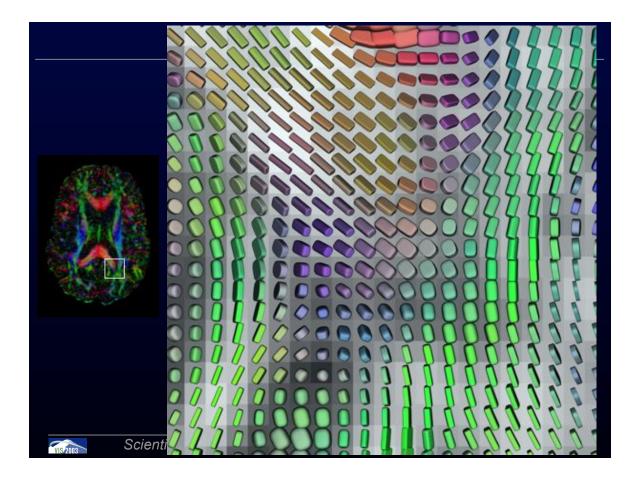
VIS/2003

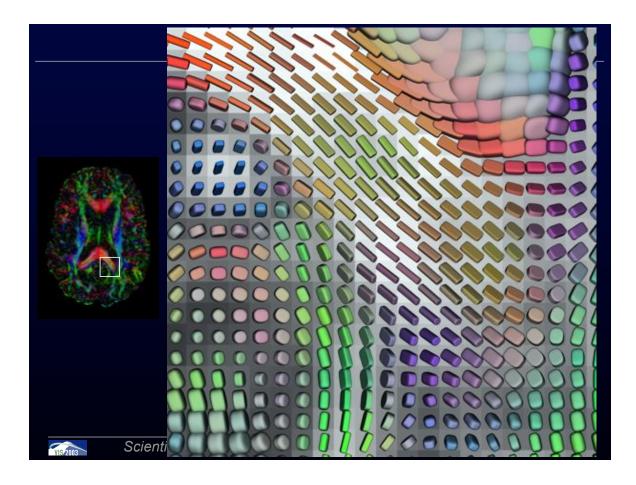
Scientific Computing and Imaging Institute, University of Utah

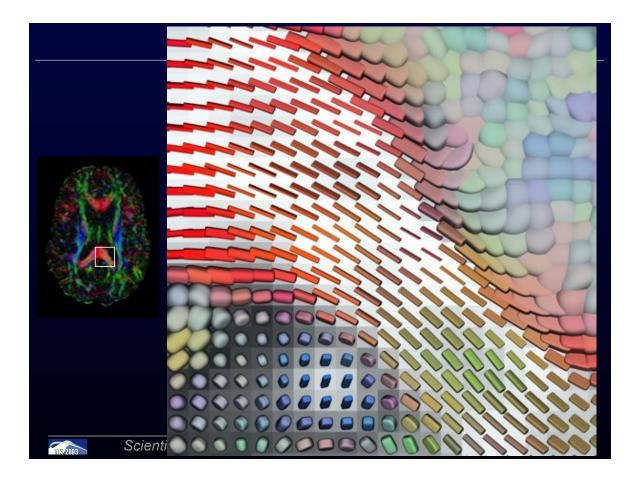
SCI

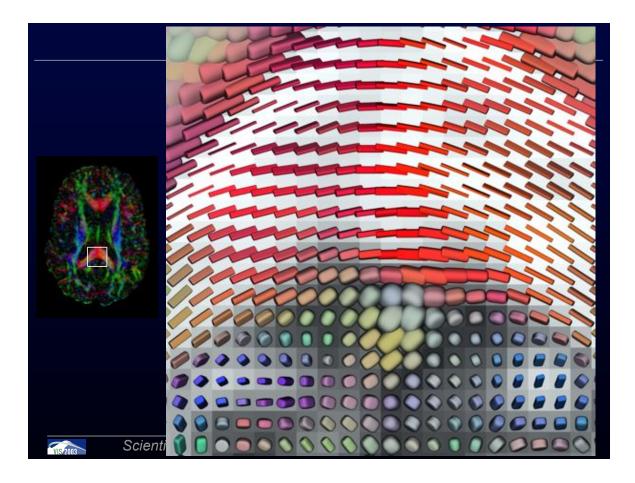


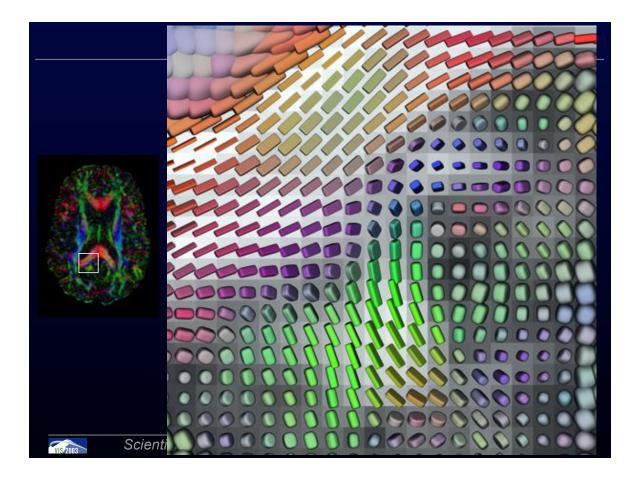


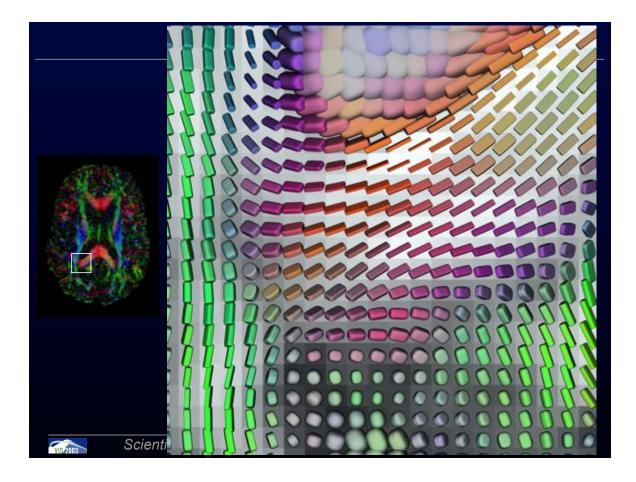




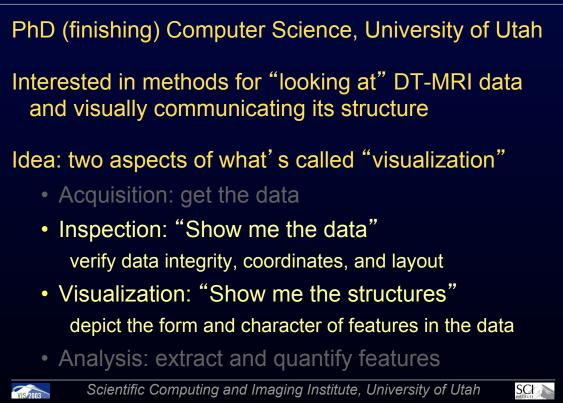


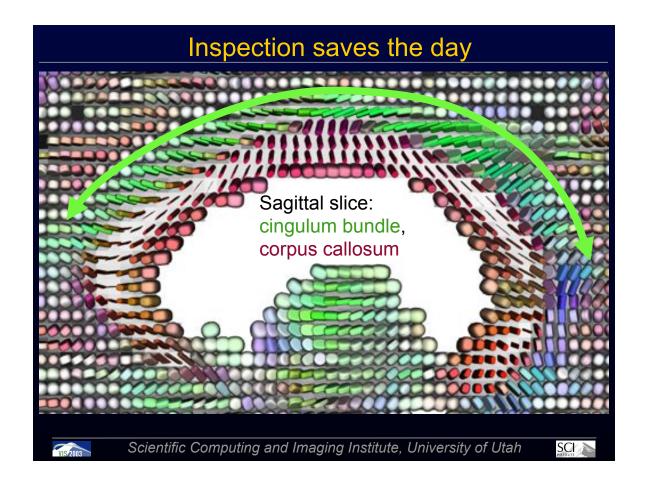


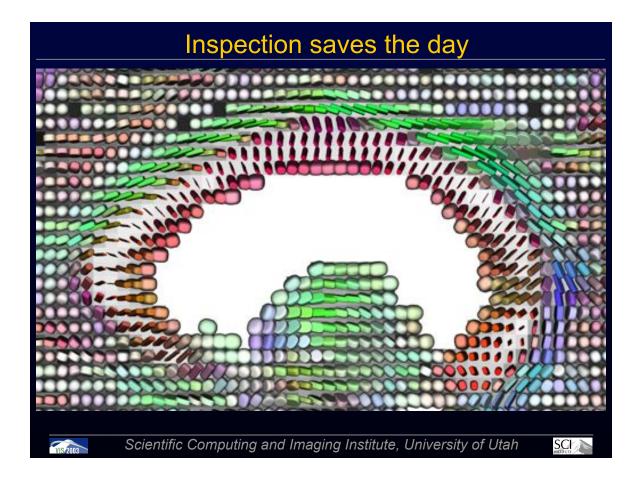




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Inspection + Visualization

Scalar shape metrics (anisotropy)

Barycentric shape space

Glyphs

- Boxes, spheres, cylinders, superquads
- Culling based on anisotropy
- Volume visualization
 - Isosurfaces of shape metrics
 - Transfer functions of shape



SCI

