

Visualization/SwiftVis

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Opening Discussion

- Minute essay comments:
 - Tools people use:
 - Excel, Matlab, GNUPlot
 - Relative strengths

Other Tools

- Mathematica
- R
- IDL
- More:

http://en.wikipedia.org/wiki/Data_visualization

SwiftVis Tutorial

- SwiftVis is free and multiplatform so I'll do a brief tutorial.
- The primary drawback is that I promise your next research advisor won't be using it.
- It was written explicitly for non-programmers who know math.
- Instead of programming, the program uses a dataflow model with sources, filters, and sinks.

Cloth in 3D

- Now that you know something about using SwiftVis, let's try to make a 3-D animation of our cloth.
- Note that this won't animate in real-time. The ray-tracing makes pretty pictures, but you run it more as a batch process then make a movie from multiple images.

Minute Essay

- Questions or thoughts before we do genetic algorithms and evolutionary work?