



Reading

- "Social Network Clustering and Visualization using Hierarchical Edge Bundles"
- Definition of Betweenness Centrality
- "On the Visualization of Social and other Scale-Free Networks"
- Graph Interaction Brainstorming Exercise
- Emergency Management Visualization

 Sean Kim's masters project
- Reading for Tuesday & Homework 3











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"On the Visualization of Social and other Scale-Free Networks" Jia, Hoberock, Garland, and Hart, TVCG 2008.
How do we know these simplifications are correct/appropriate/not misleading?

Metrics may be application domain specific?
Study graph statistics
Perform tests of random node/edge selection & random walks

Overclustering (problem with prior work) can imply that items directly interact when they did not in the original dataset

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Homework Assignment 3: due Thursday @ 11:59pm Intro to (Web-Based) Interaction

- Explore the examples on the D3: Data-Driven Documents
- <u>http://d3js.org/</u> website (download the examples, modify them, start to read the documentation)
- Make an interactive (visualization) artifact:
 - Depends on your level of prior experience with Web Development tools (if you're already a D3 expert, you can choose another new-to-you tool)
 - Purpose: Can be silly & possibly exemplify our "bad visualization" traits (pie charts, chart junk, etc.)
 - Types of "interaction" may include:
 - pop up text messages
 - data hide/reveal/emphasize/restructure
 - font/size/color/transparency change