6 - Project: Bring Your Own Data

Or use ours

Drew Conway and Aric Hagberg

June 29, 2010

Ideas for your data

- Undirected
  - Reduce the size/complexity (k-core analysis)
  - Compute assortativity by degree, visualize degree mixing matrix
  - Uncover underlying structure (block model) (blockmodel.py)
- Bipartite
  - Project onto one of the node sets
  - Project and keep track of multiple edges
- Directed
  - Node analysis, PageRank, HITS
  - Find strongly and weakly connected components, draw
- With attributes
  - Visualize (node color, node size, edge color, edge width)
  - Assortativity by attribute