6 - Project: Bring Your Own Data Or use ours

Drew Conway and Aric Hagberg

February 8, 2011

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, condensation, draw

With attributes

- Visualize (node color, node size, edge color, edge width)
- Assortativity by attribute