

## 6 - Project: Bring Your Own Data

Or use ours

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- ▶ 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