Weekly Report（12/16/16）

Progress this week:

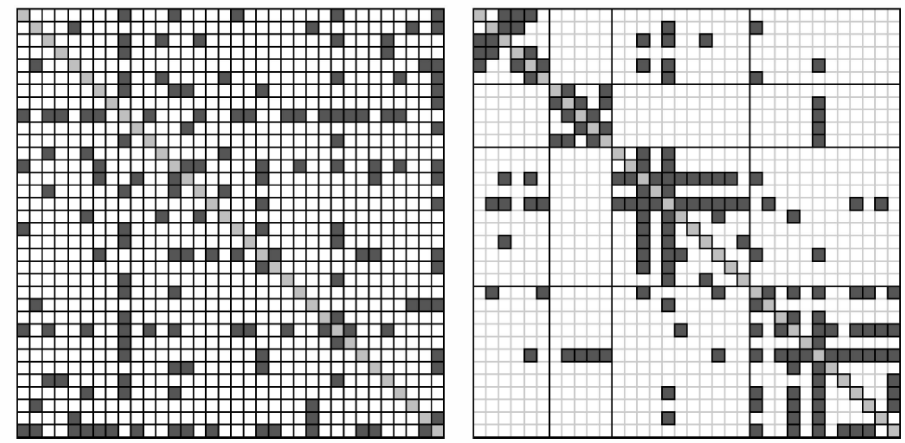
1) **Read the paper.**

Network Analysis in the Social Sciences.

There are several big periods of research on complex networks. The complex networks, from the Euler bridge problem to the later biological engineering, are inseparable from the map. Complex directed graphs and undirected graphs can represent the structure of complex networks. Through the study of complex networks, such as community discovery, similar node search, network dynamic performance, to better serve the social network.

2) **Some Thoughts on Application**

For applications. Now there is an immature idea. Due to the visualization of the community after discovery. Previous work was the use of three-dimensional, color circle connected to form graphics. What we now have is a heuristic linear transformation of the link matrix. Because our model has a good model, can be used for visualization. The worst result, I think, should be stronger than the following image. Of course, the last is add color. After all, Colorful pictures, very friendly to people.



(a) adjacency matrix (b) grouped by communities

Plan next week:

1) Review the code of the paper, then
2) Prepare the final exam.

This week's results: