Bernoulli network

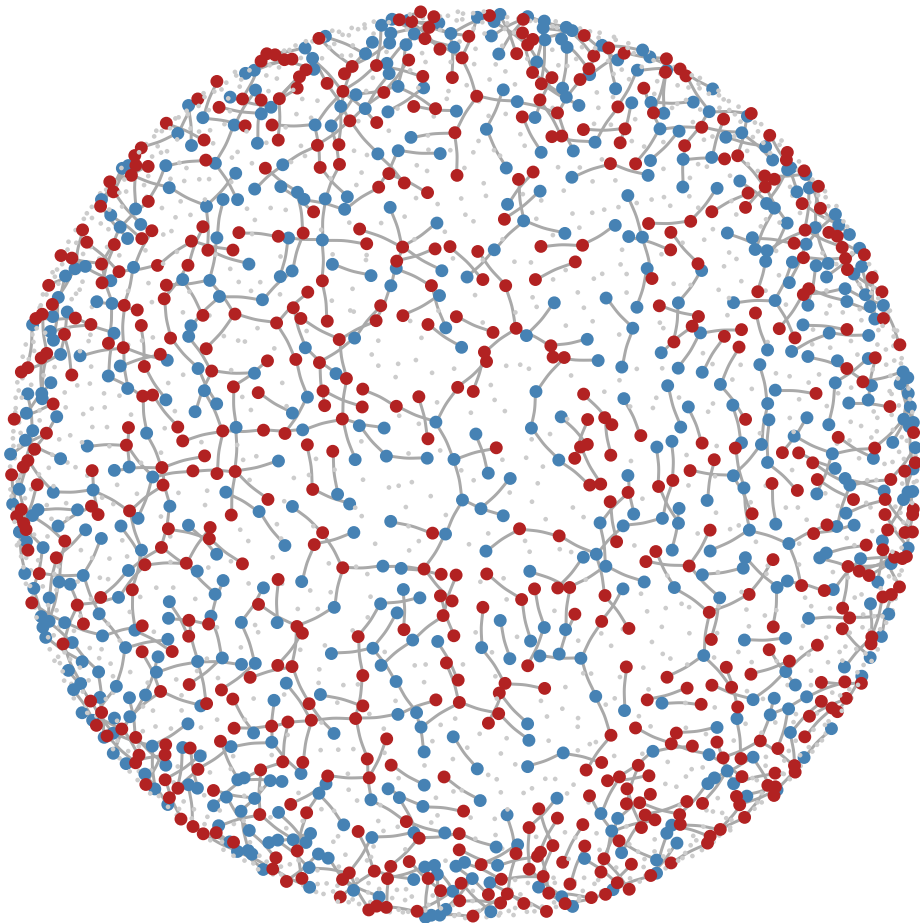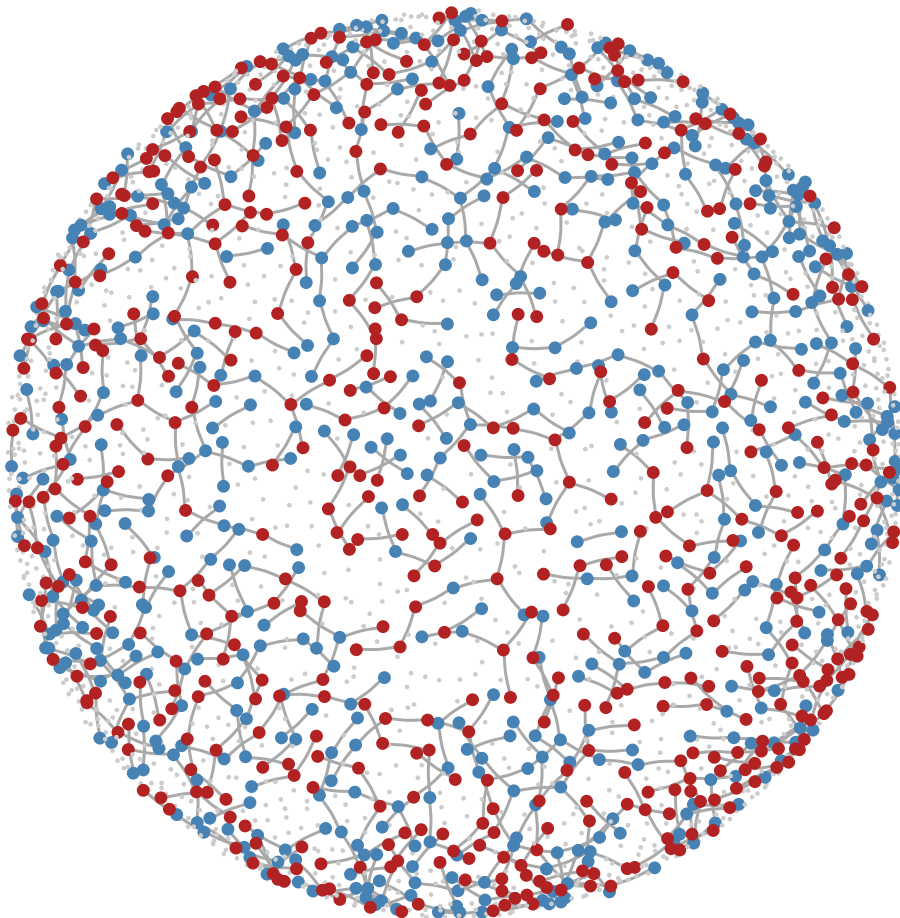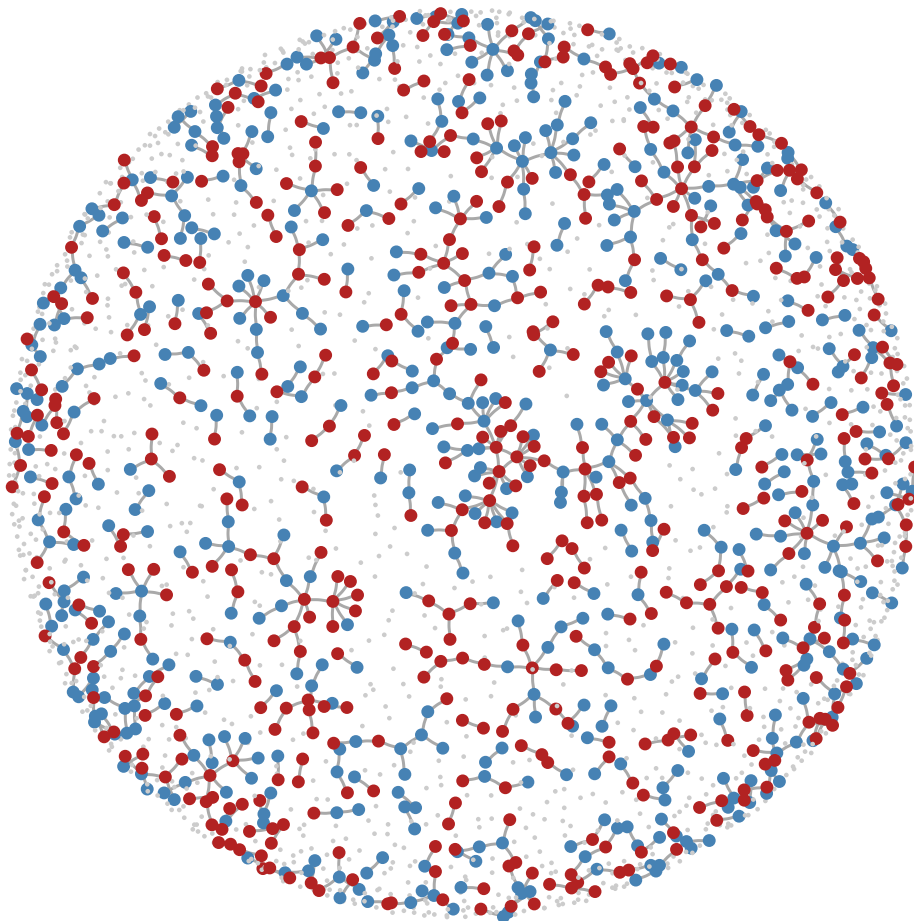# Tree network

Realistic network

Realistic homophilic network