## **Small-world Networks All Around**

Most "natural evolved" networks are small world

- Network of actors → six degrees of Kevin Bacon
- Network of humans → Milgram's experiment
- Co-authorship network → "Erdos Number"
- World Wide Web, the Internet, ...

Many of these networks also "grow incrementally"

- "Preferential" model of growth
- When adding a vertex to graph, connect it to existing vertex v with probability proportional to num\_neighbors(v)