## Random Network, Accidental Node Failure Scale-Free Network, Accidental Node Failure Scale-Free Network, Attack on Hubs Attacked hub

Scale free networks are resilient to random attacks on nodes or node failures (cf. internet on 9/11)

when more hub nodes fail though....

targeted attack!

## Effectiveness / Connectivity: 6 degrees of separation

## Kevin Bacon number (Erdős number)

- Node degree
- Degree distribution
- Assortativity
- Clustering coefficient
- Motifs
- Path length
- Path efficiency
- Connection density or cost
- Hubs
- Centrality
- Robustness
- Modularity

Degree of separation (from Kevin Bacon)

'6 degrees of separation'

