- Theoretically, any degree-based metric has *no necessary* relation to a network's structure.
 There are many graphs with *identical* degree distributions
- but very different topologies (enter ergm).
- Preferential attachment → scale free
- Not (necessarily) vice versa
 Even finding a power-law degree distribution (but see previous slide), isn't enough to say much about global
 - network structure.
 (e.g., If any non-degree based patterns underlie network formation processes.)