Properties of Networks

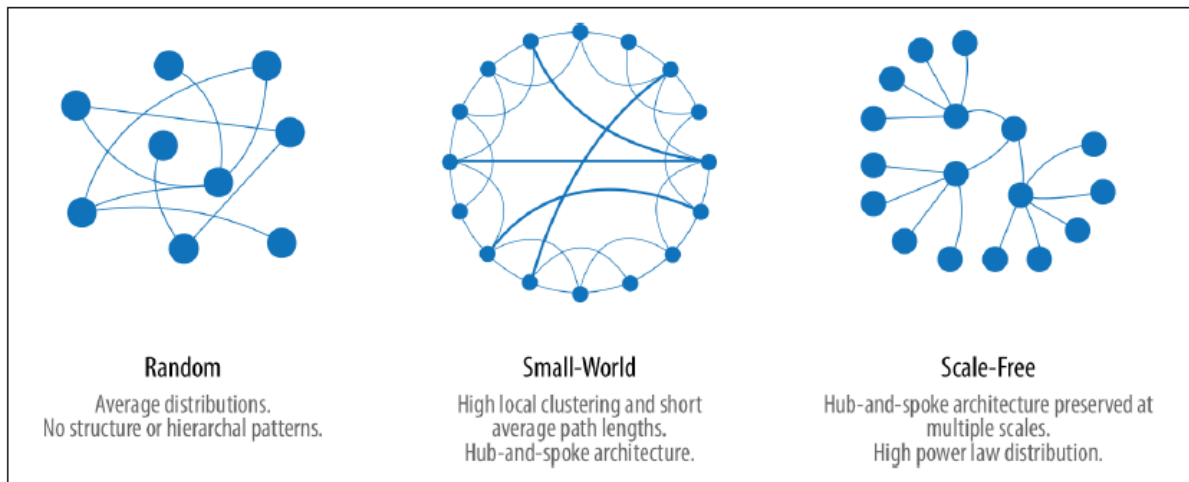| Random	Small-World	Scale-Free
Average distributions. No structure or hierarchal patterns.	High local clustering and short average path lengths. Hub-and-spoke architecture.	Hub-and-spoke architecture preserved at multiple scales. High power law distribution.

A **small**-**world network** is a type of mathematical graph in which most nodes are not neighbours of one another, but the neighbours of any given node are likely to be neighbours of each other and most nodes can be reached from every other node by a **small** number of hops or steps.

A **scale-free network** is a network whose degree distribution follows a power law (one quantity varies as a power of another) at least asymptotically.