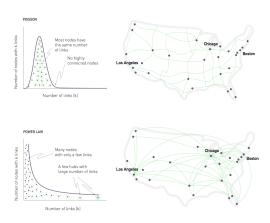
networks models

introduction to network science in Python (NetPy)

Lovro Šubelj University of Ljubljana 18th Jan 2022

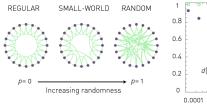
networks scale-free

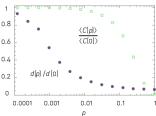
- power-law degree distribution $p_k \sim k^{-\gamma}$ [Pri65]
- preferential attachment scale-free model [BA99]



networks *small-world*

- coexistence of $\langle C \rangle \gg 0$ and $\langle d \rangle \simeq \frac{\ln n}{\ln \langle k \rangle}$
- *link rewiring small-world* model [WS98]





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