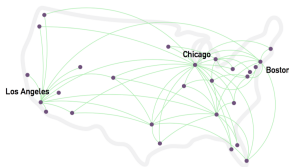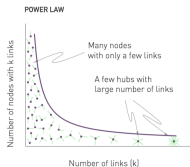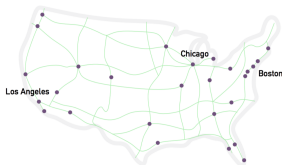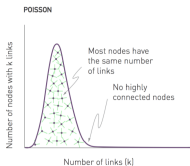# *networks* models

introduction to *network science in Python* (*NetPy*)
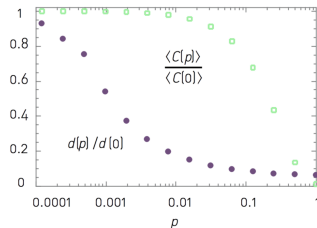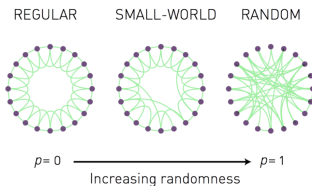
Lovro Šubelj
University of Ljubljana
14th Dec 2021

networks *scale-free*

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

— *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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