



Radboud University Nijmegen

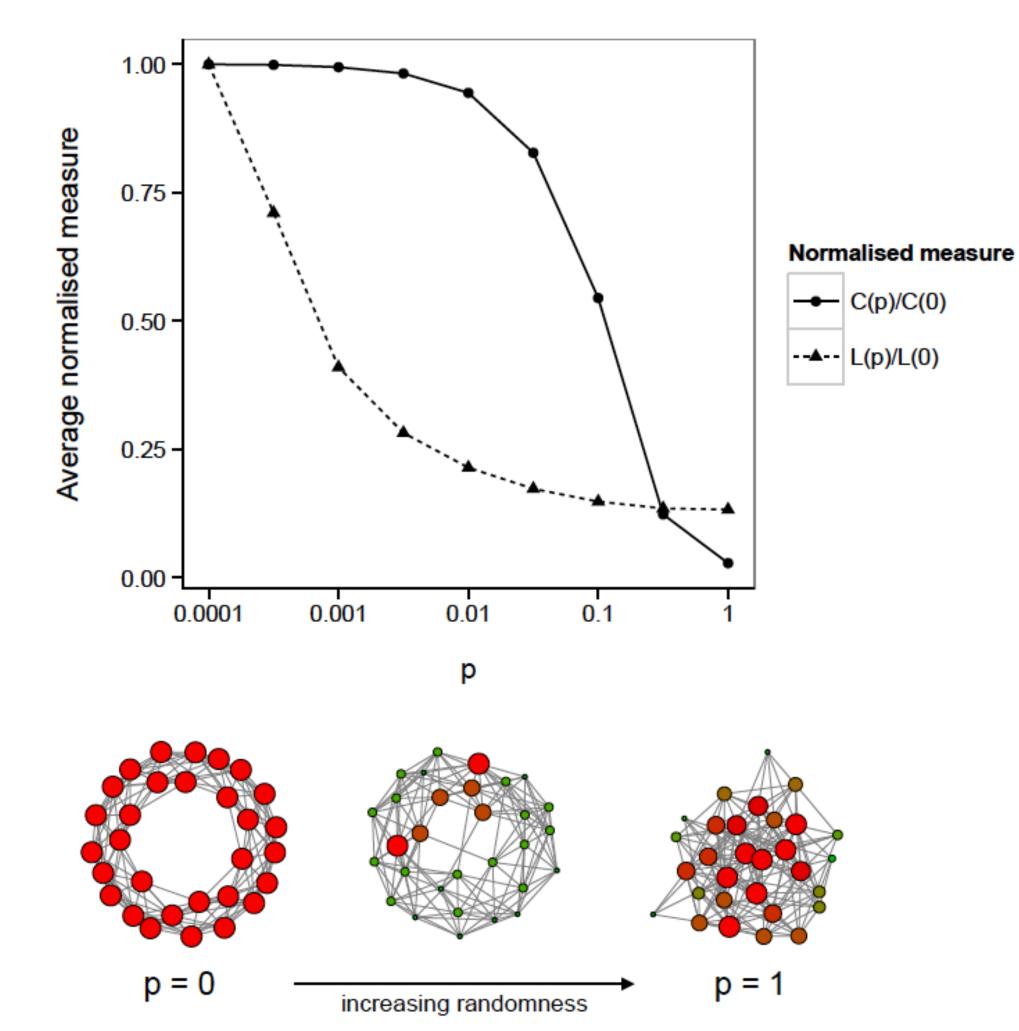
Network / Graph topology: It's a Small World After All

"small-world" test:

Average path length (L)

Clustering coefficient (C)

Compare to randomly rewired version



Sound familiar? In between

fully ordered

completely random

optimal

Watts, D. J., & Strogatz, S. H. (1998). Collective dynamics of 'small-world'networks. Nature, 393(6684), 440-442.

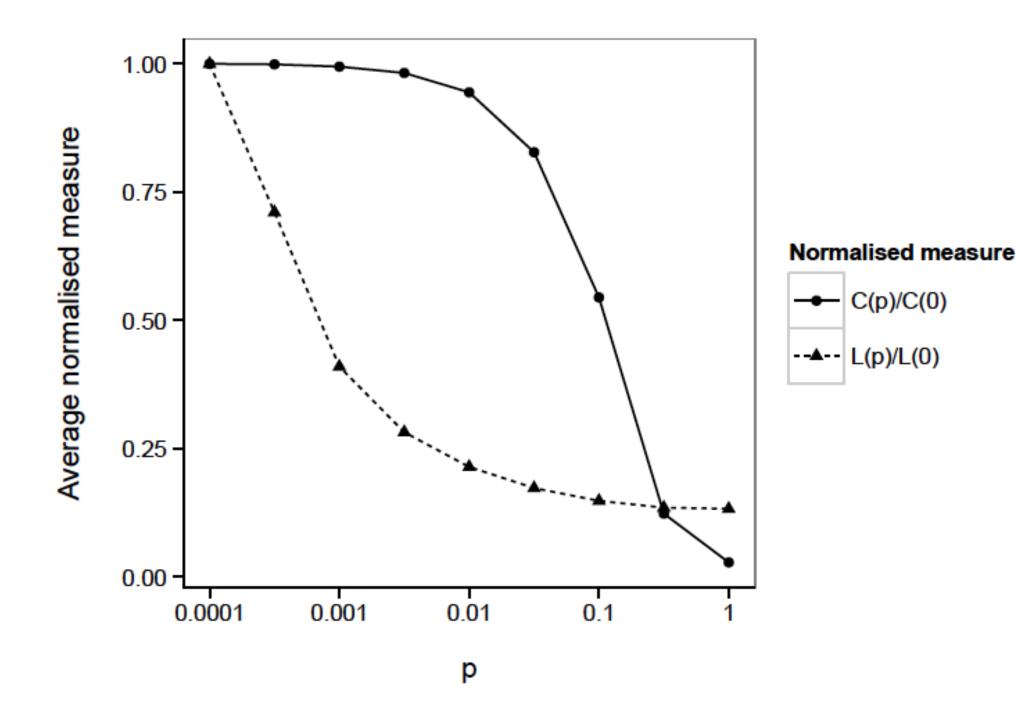
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"small-world" test:

Average path length (L)

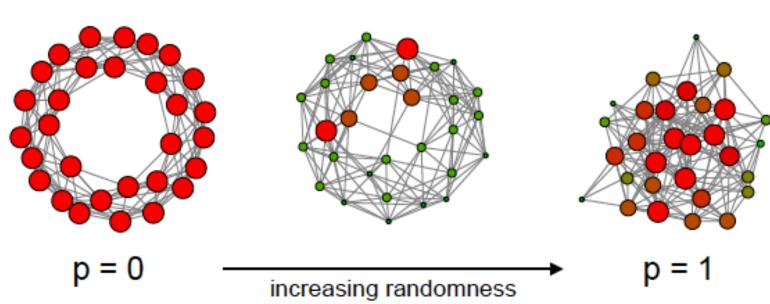
Clustering coefficient (C)

Compare to randomly rewired version



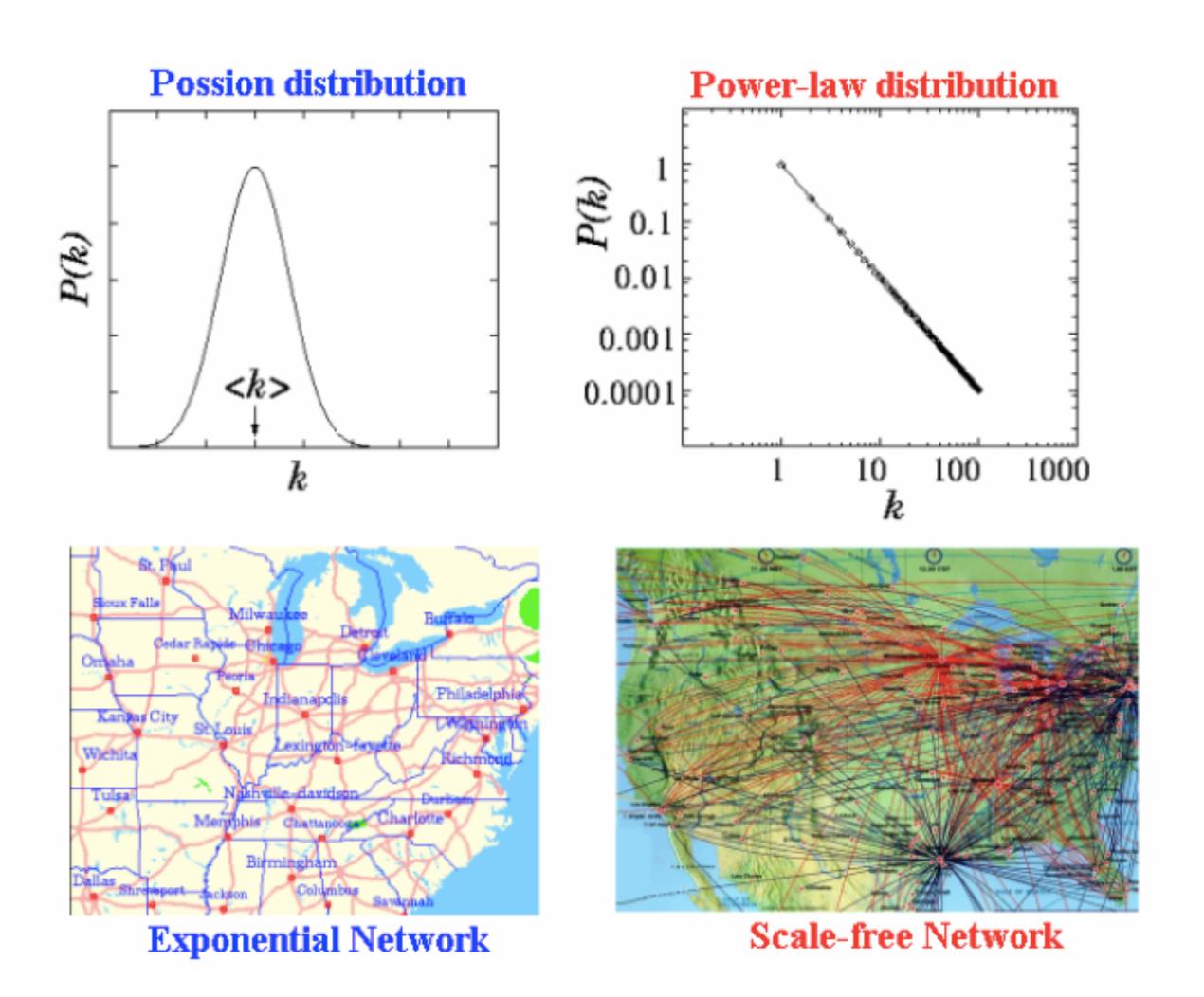
Sound familiar?

In between fully ordered & completely random = optimal





Network / Graph topology: It's a Scale Free World After All



Number of connections a node in the network has: degree (δ)

Scale-free network: degree distribution is a power law!