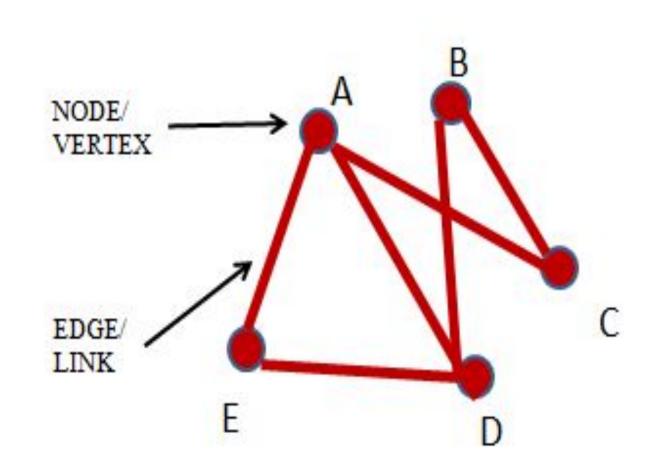
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networks

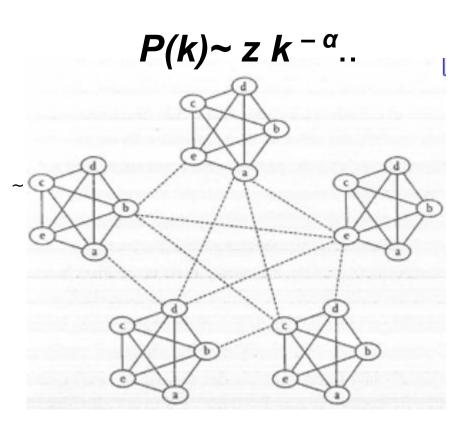
Synergies and feeedback

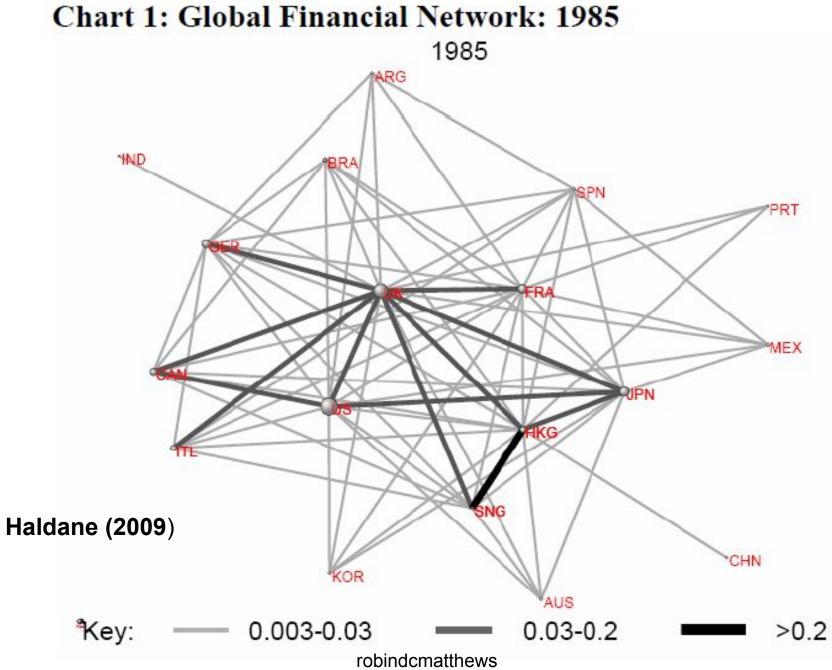


More complex networks

Networks: default state Small world: highly clustered, short path lengths

- Degree of a node is the number of edges (k) connecting it to other nodes.
- High degree nodes have many connections (high k); low degree nodes have few (low k)
- •*P(k)* probability of degree *k* follows a power law
- $P(k) \sim z k^{-\alpha}$..





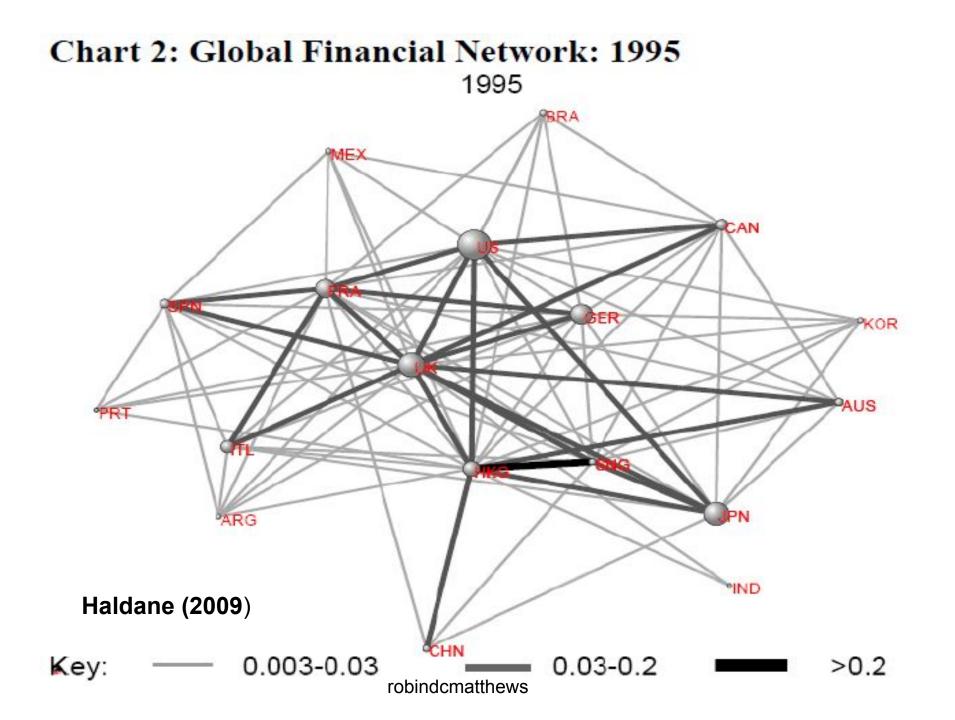
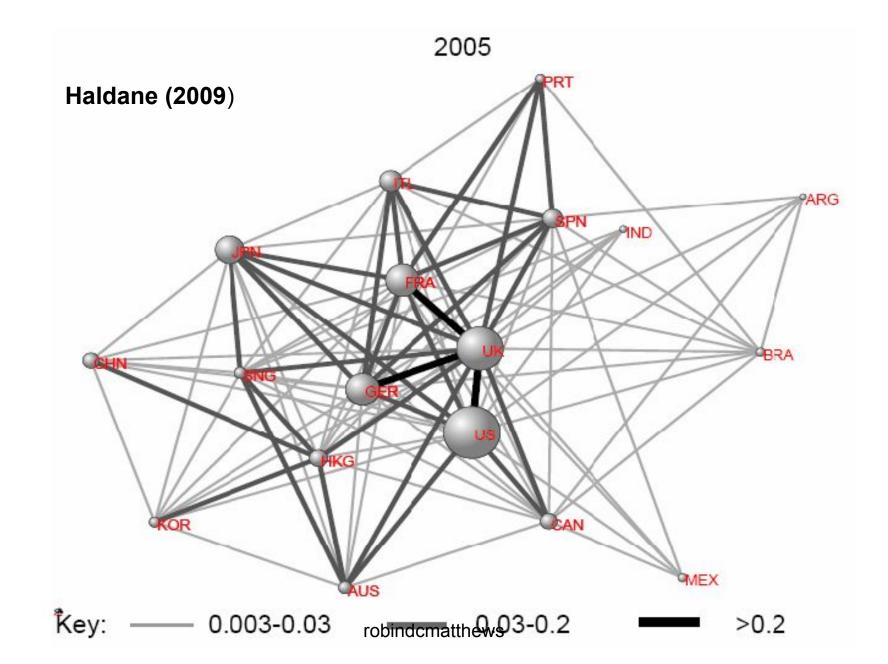
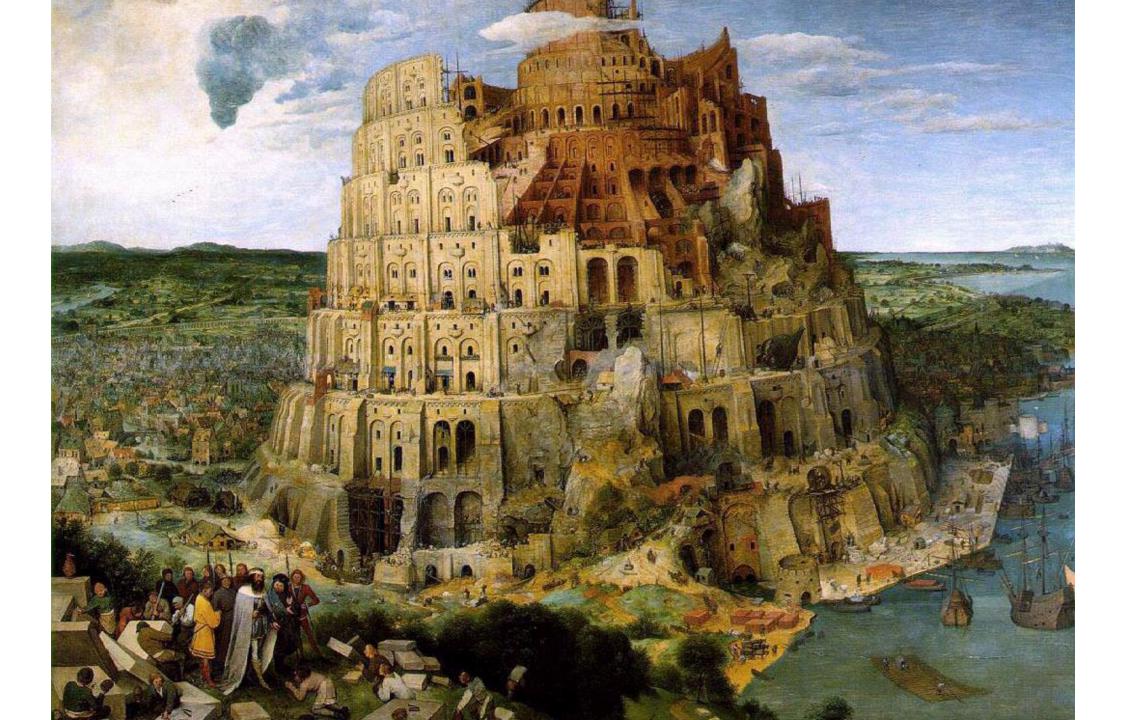


Chart 3: Global Financial Network: 2005



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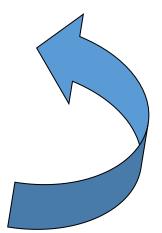
The Crisis 2007 – 20012 The financial tower of Babel



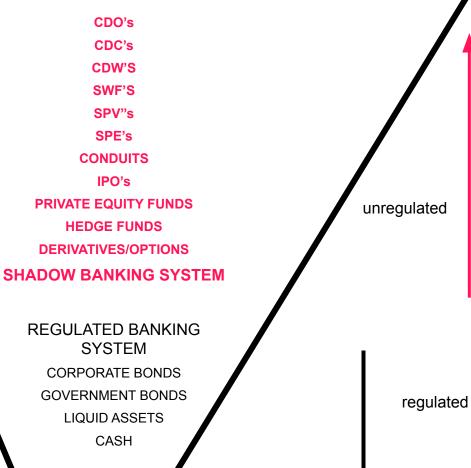
GLOBAL POSITIVE FEEDBACKS 1980 – 2006 (circa)

•FINANCIAL •REVOLUTION •Flexible exchange rates Deregulation New asset pricing models •TECHNOLOGICAL REVOLUTION Investment funds •Shorter product cycles •Pressure to reduce ???? •Outsourcing •GLOBAL •DEMAND •Outsourcing •FDI Consumption Investment •Asset prices •Sovereign wealth funds





The financial tower of Babel: 21ST century



Causes of crises

- Low interest rates
- Savings glut
- Financial innovation
- Moral hazard
- None of the above
- All of the above
- Samudaya (the second noble truth: thirst)



