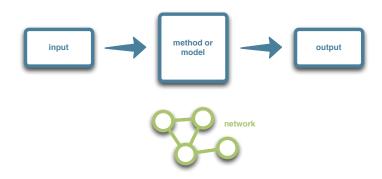
network *perspectives*

introduction to network analysis (ina)

Lovro Šubelj University of Ljubljana spring 2023/24

network *perspectives*

network analysis where is *network in analysis*?



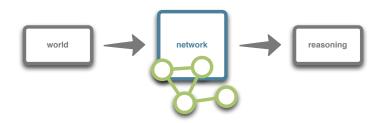
network as input

computer science network is input to analysis



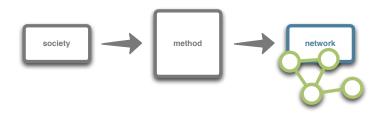
network as model

physics network is model of analysis



network as output

social sciences network is output of analysis



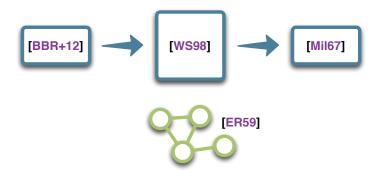
network as graph

graph theory network is graph



network science

network science collaboration among disciplines



perspectives references



A.-L. Barabási.

Network Science.

Cambridge University Press, Cambridge, 2016.



Wouter de Nooy, Andrej Mrvar, and Vladimir Batagelj.

Exploratory Social Network Analysis with Pajek: Expanded and Revised Second Edition. Cambridge University Press. Cambridge, 2011.



David Easley and Jon Kleinberg.

Networks, Crowds, and Markets: Reasoning About a Highly Connected World.

Cambridge University Press, Cambridge, 2010.



Ernesto Estrada and Philip A. Knight.

A First Course in Network Theory. Oxford University Press, 2015.



Mark E. J. Newman.

Networks.

Oxford University Press, Oxford, 2nd edition, 2018.