

The Impact of Projection and Backboning on Network Topologies

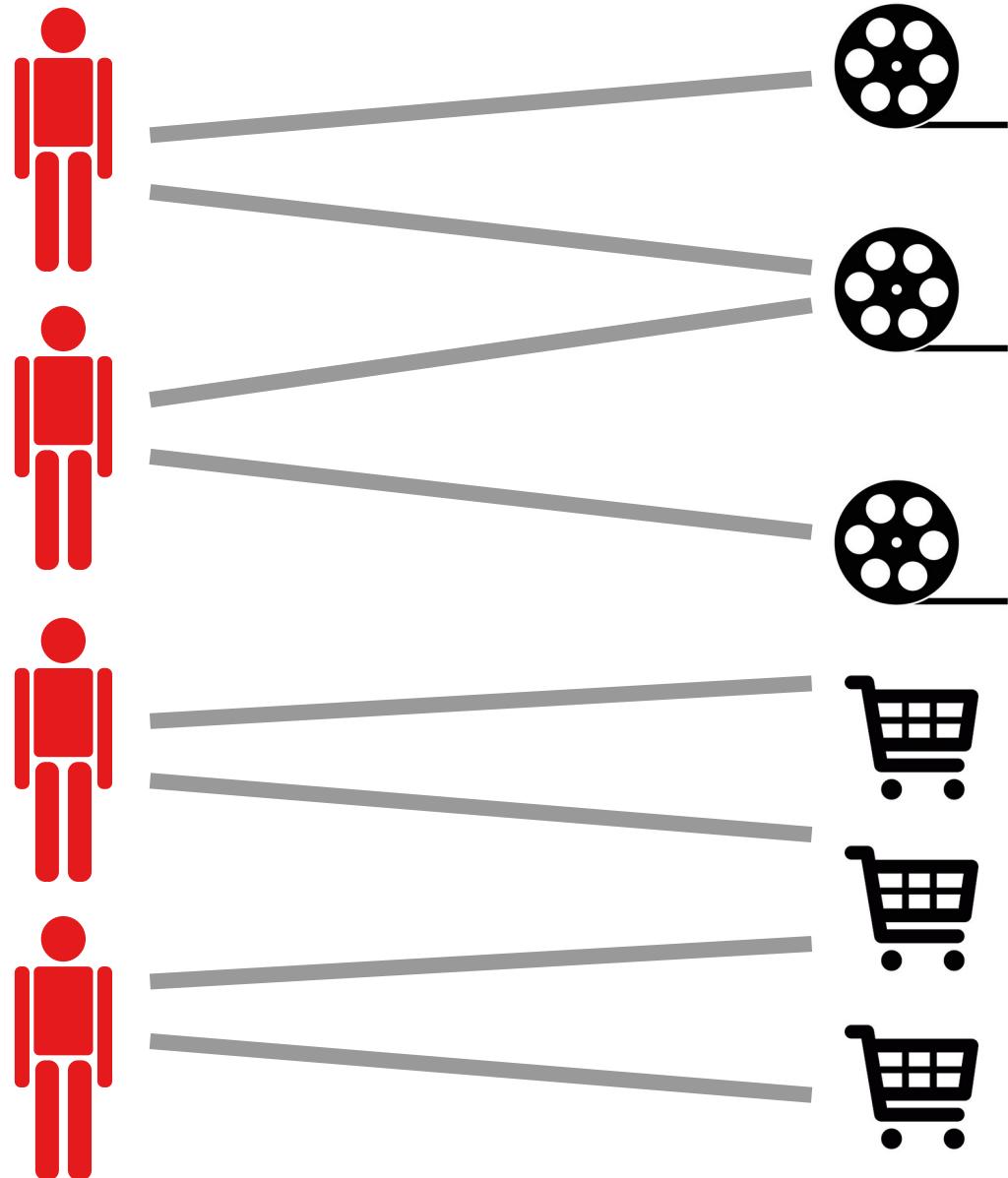
Michele Coscia & Luca Rossi
ITU København

August 29th, 2019

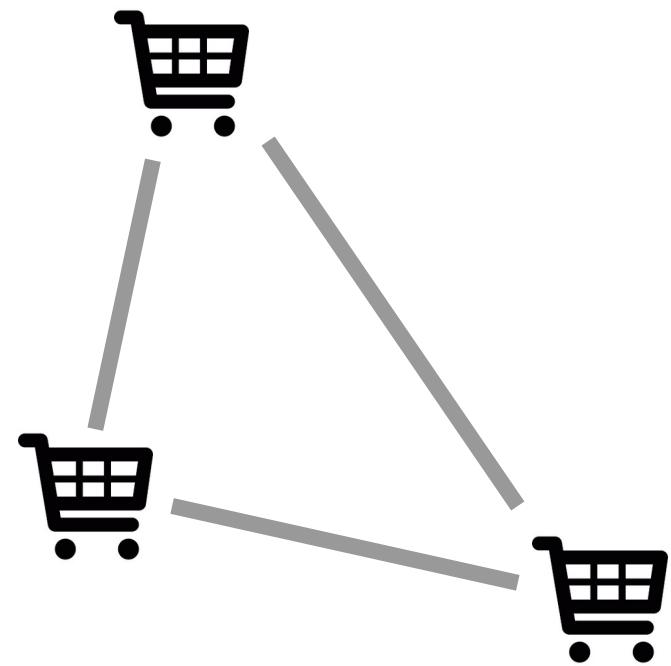
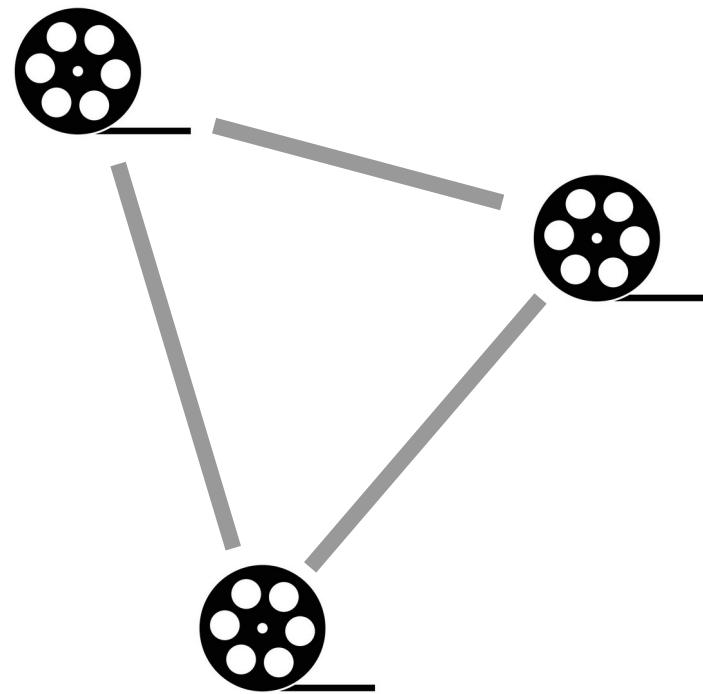
IT UNIVERSITY OF COPENHAGEN

(almost)

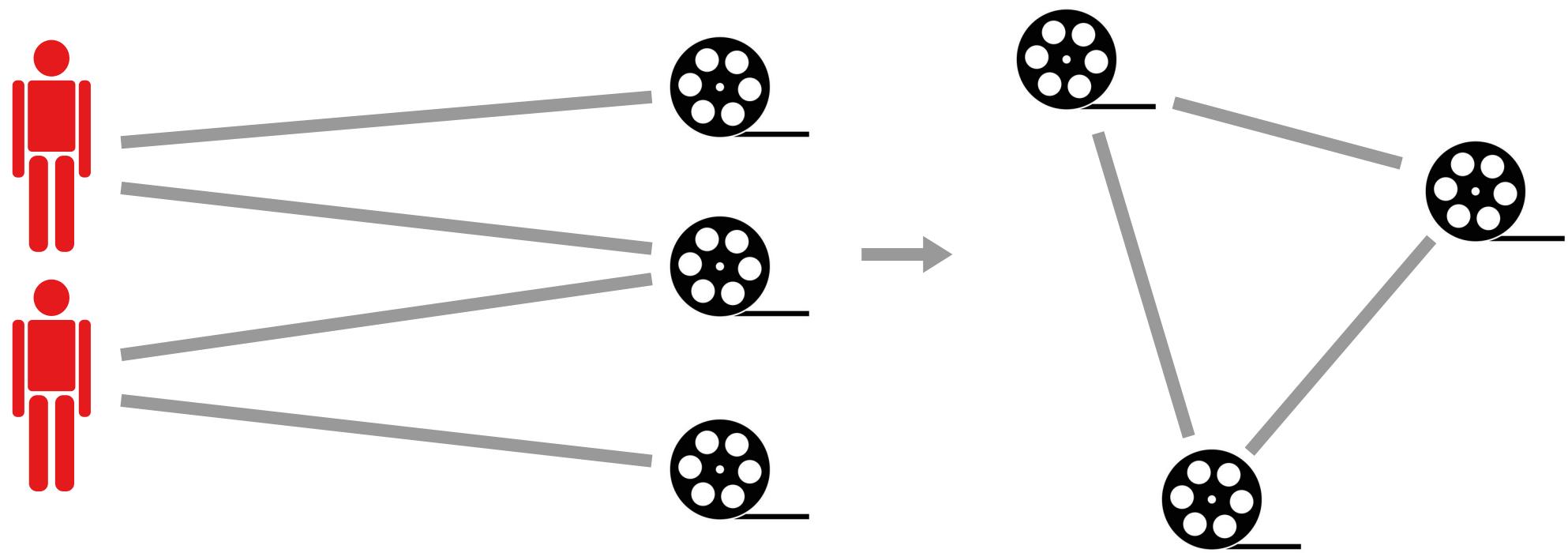
Everything is Bipartite...



...but We Like Unipartite



How do you do it?

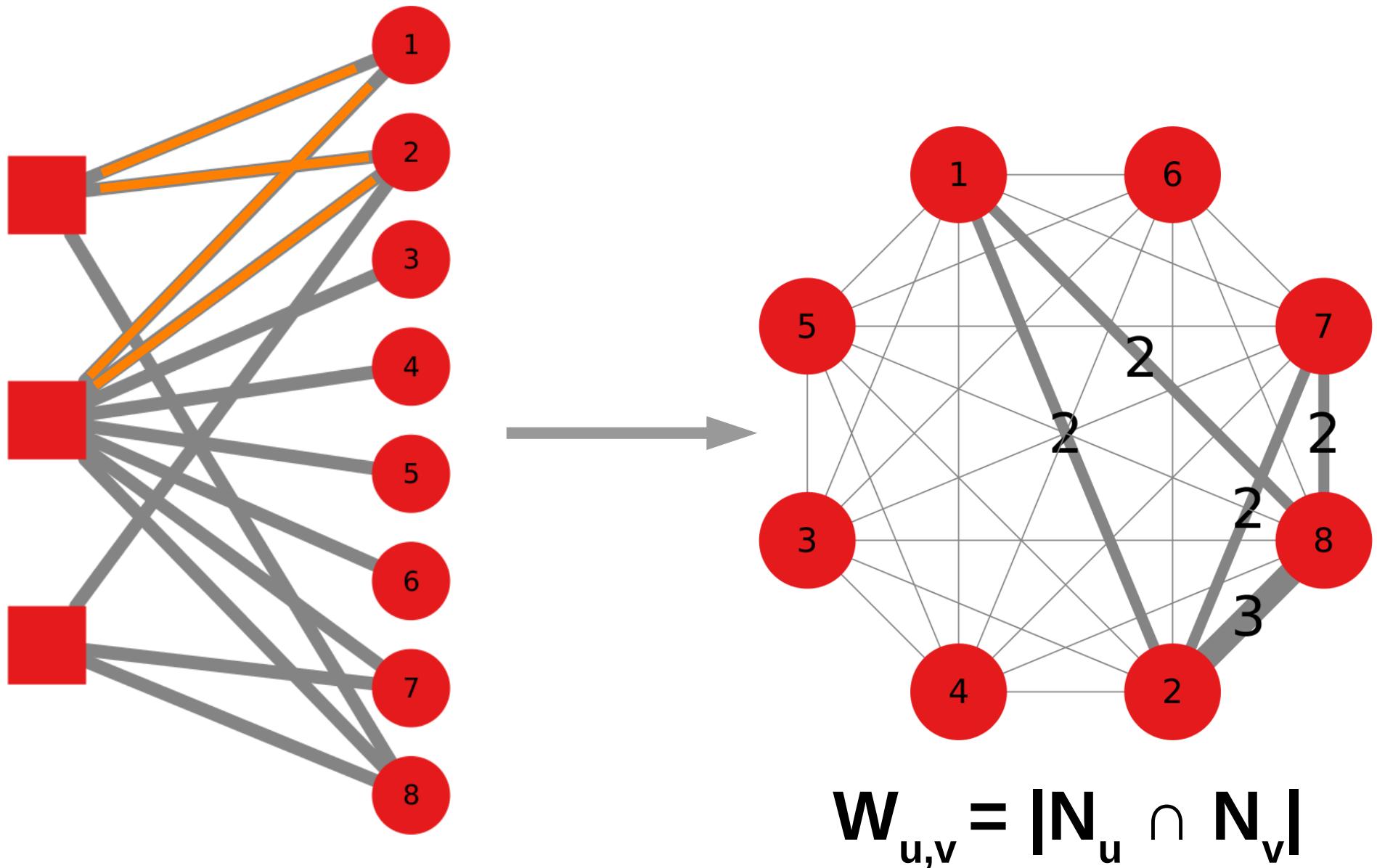


Projection + Backboning

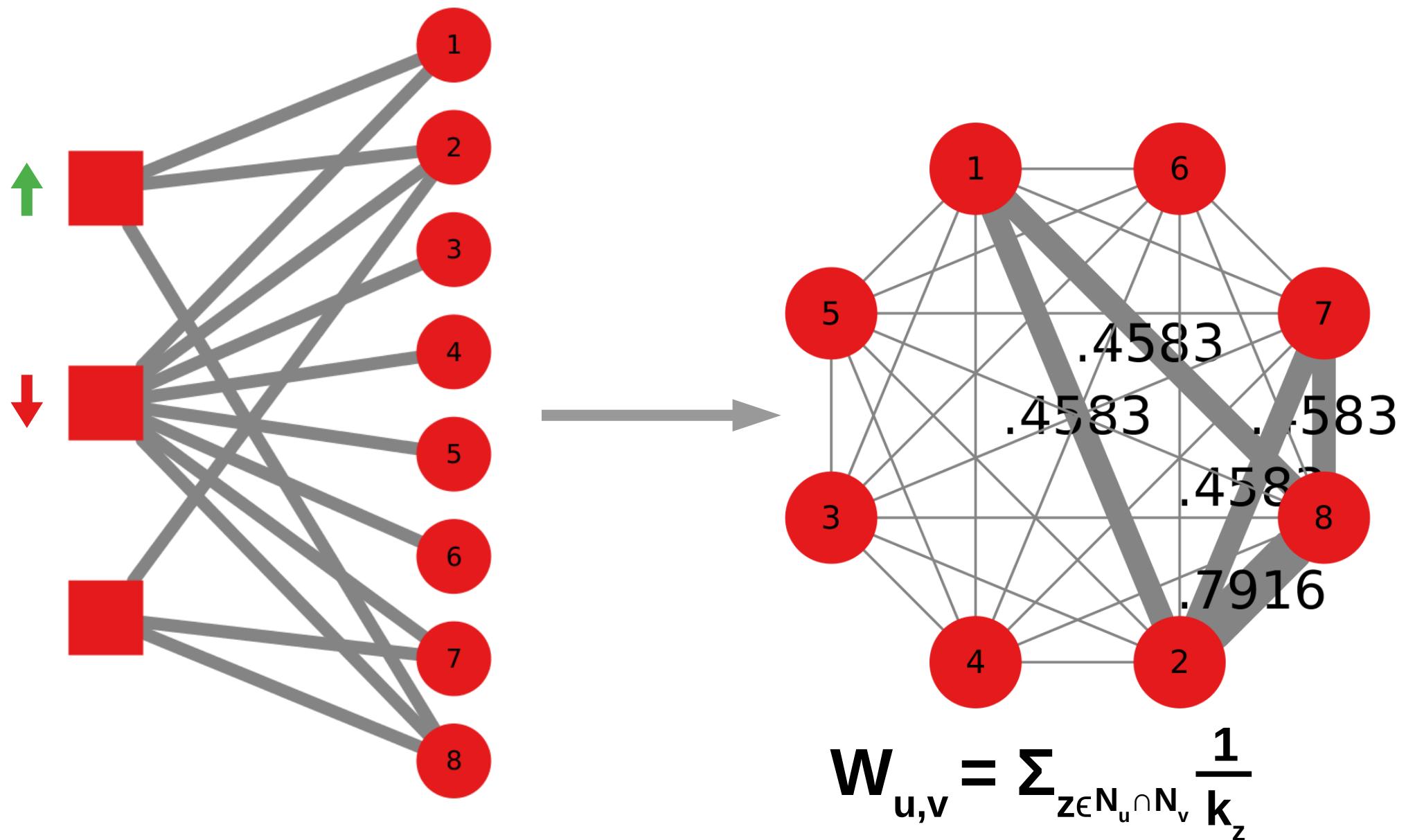
The Problem

Projection + Backboning has a huge effect on the shape of the network and its subsequent analysis and should be systematically investigated

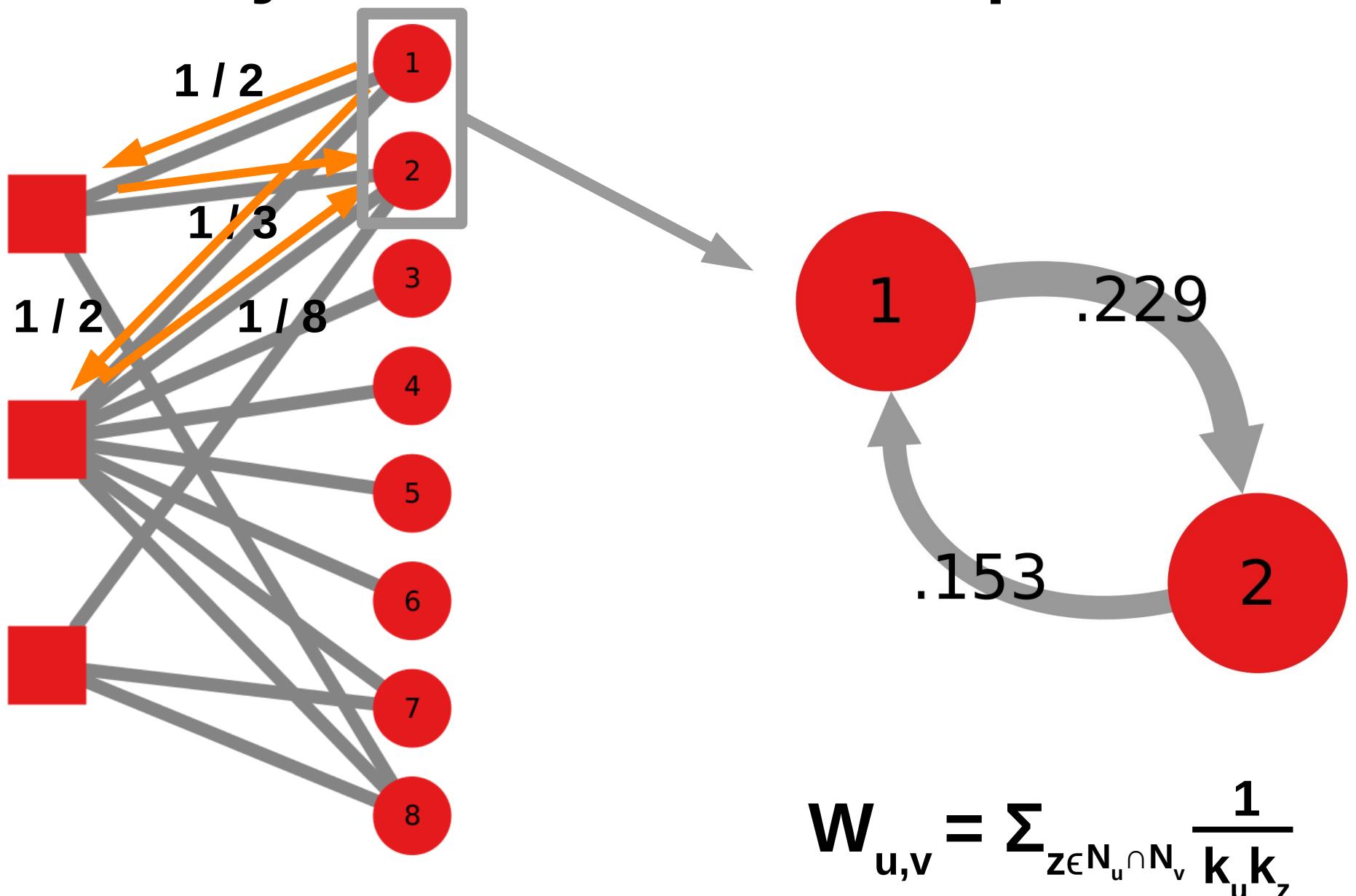
Projection Techniques



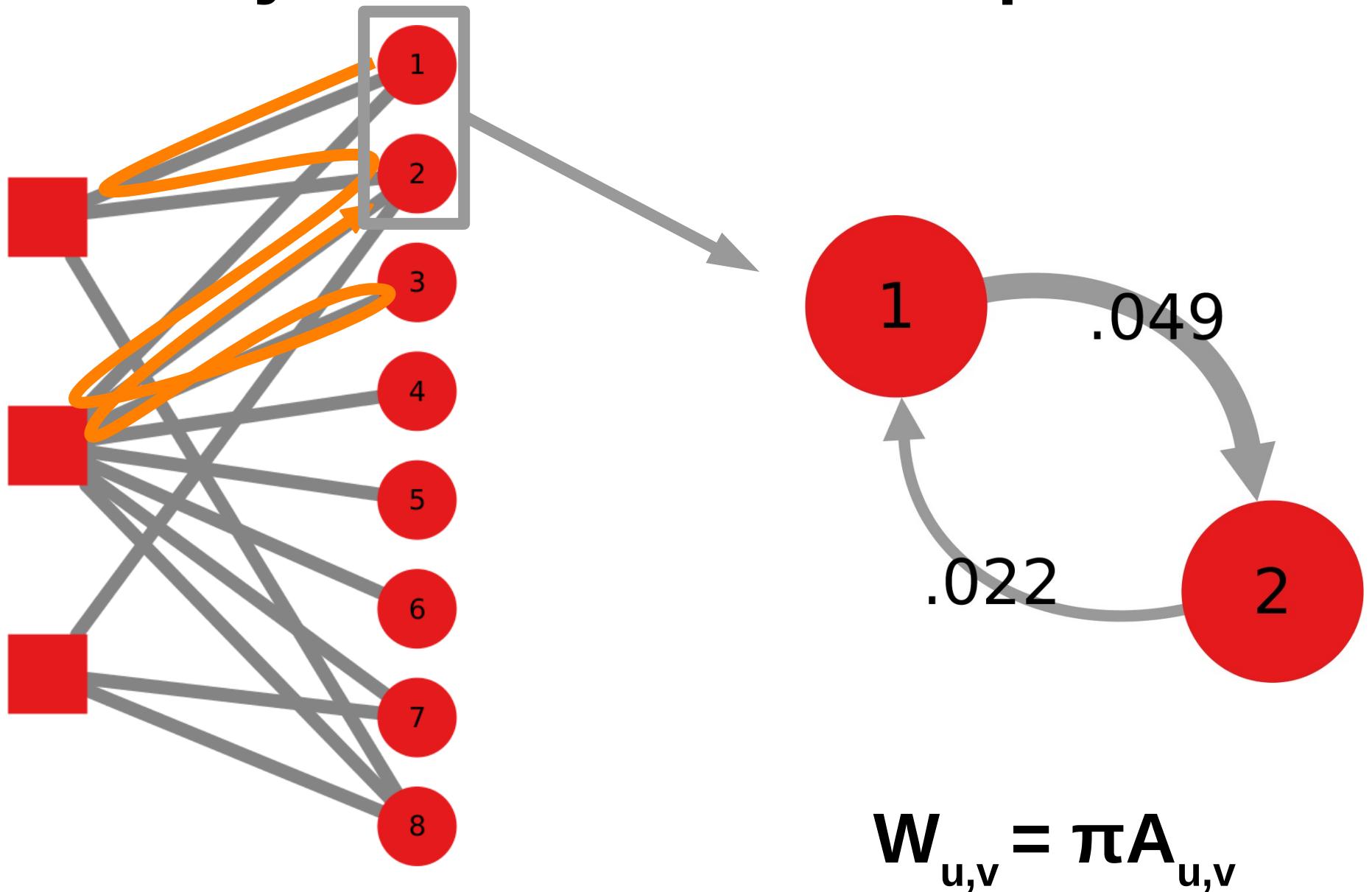
Projection Techniques



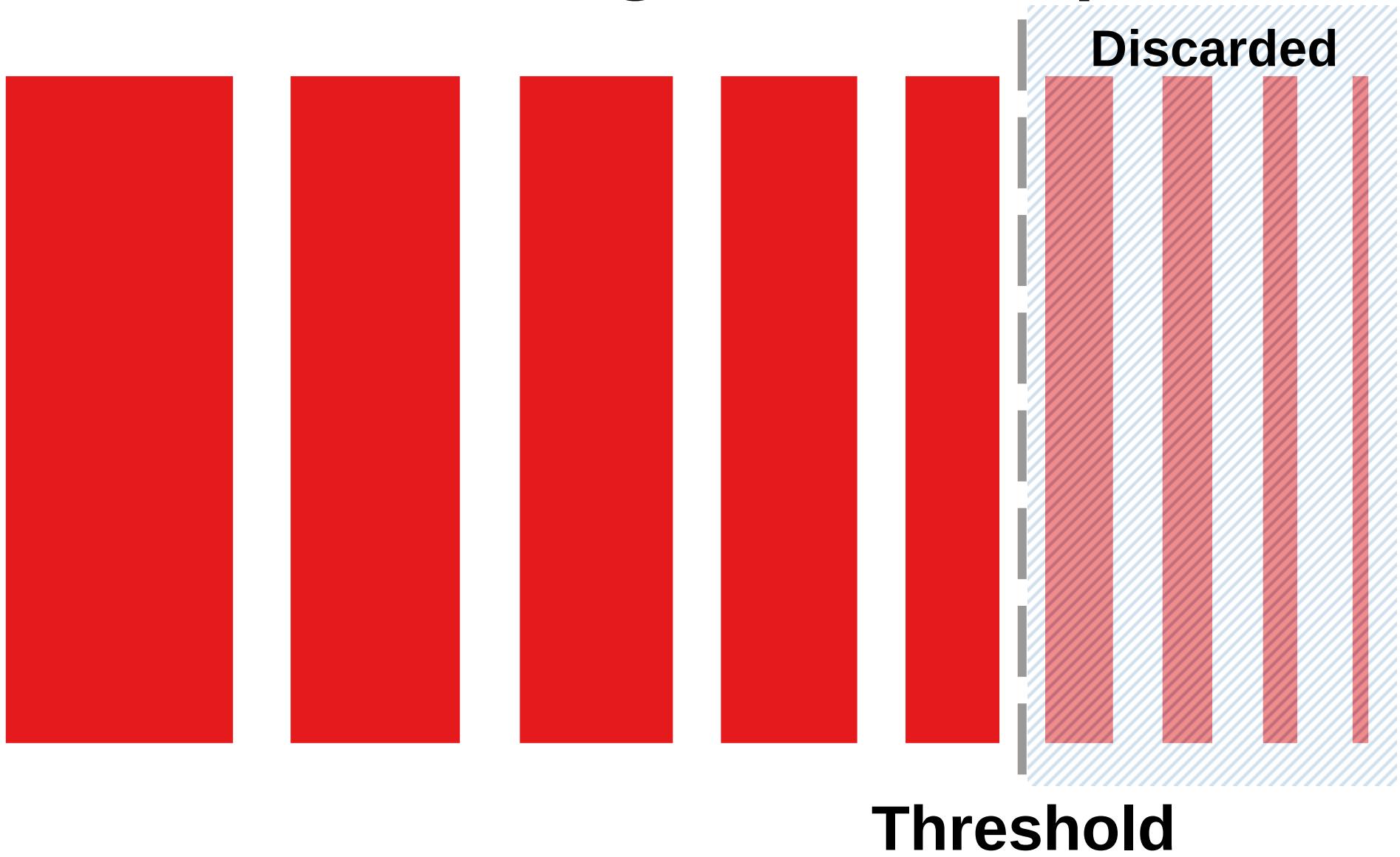
Projection Techniques



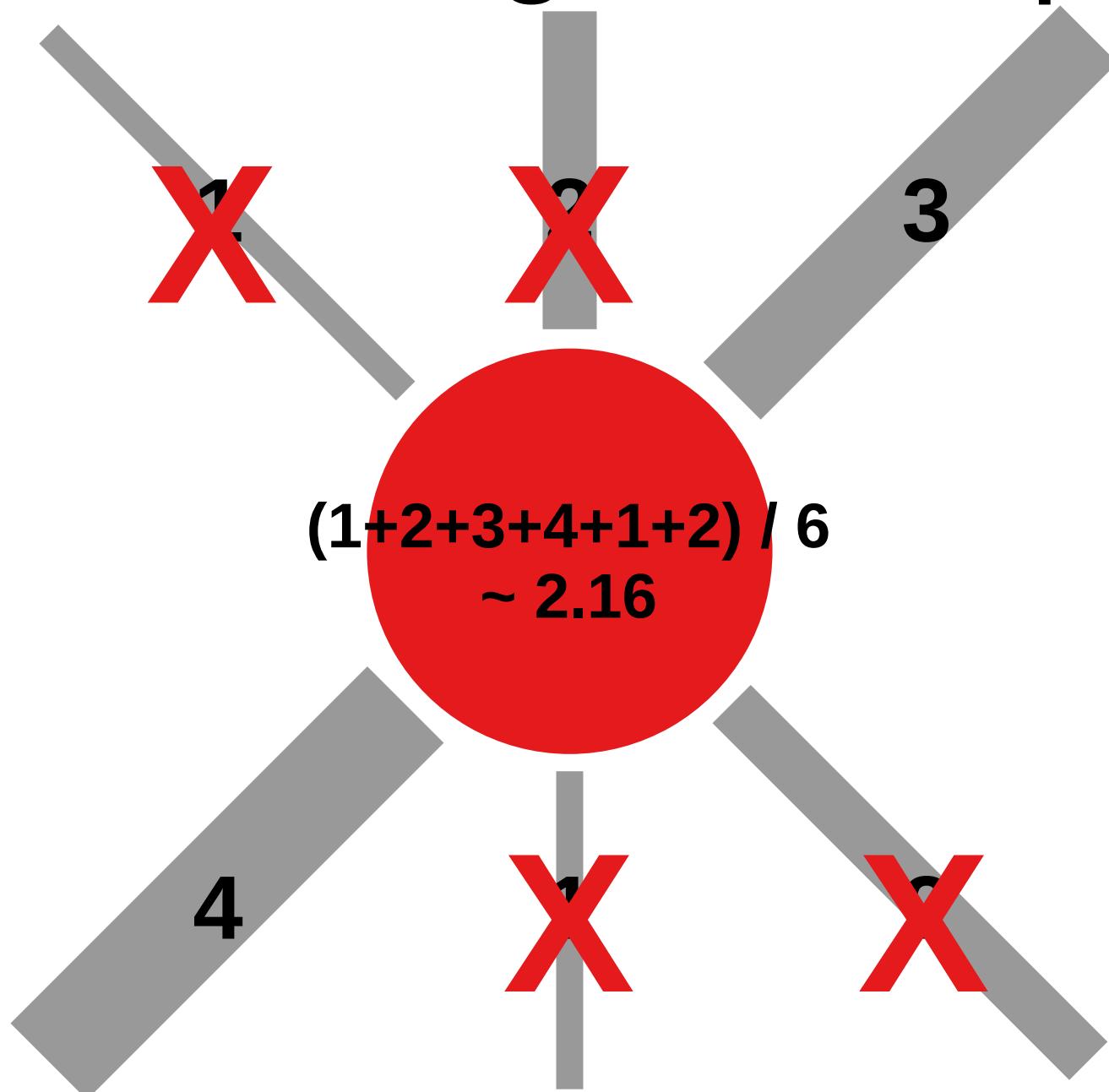
Projection Techniques



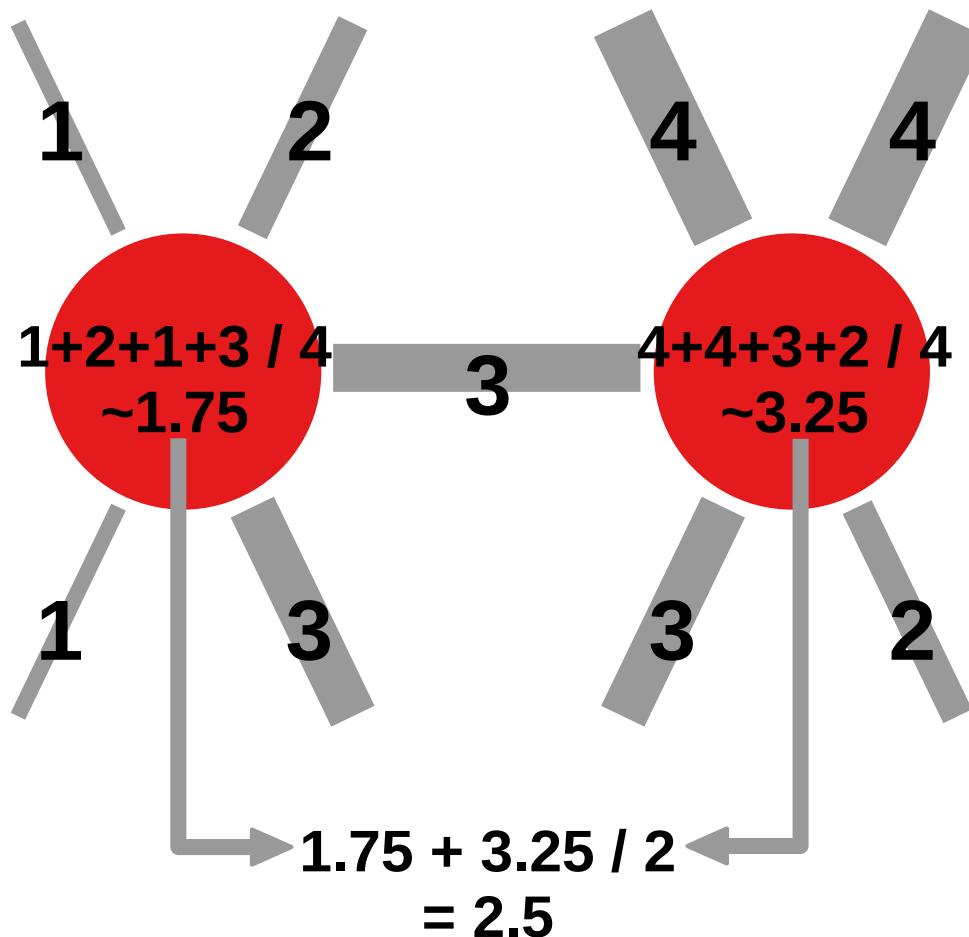
Backboning Techniques



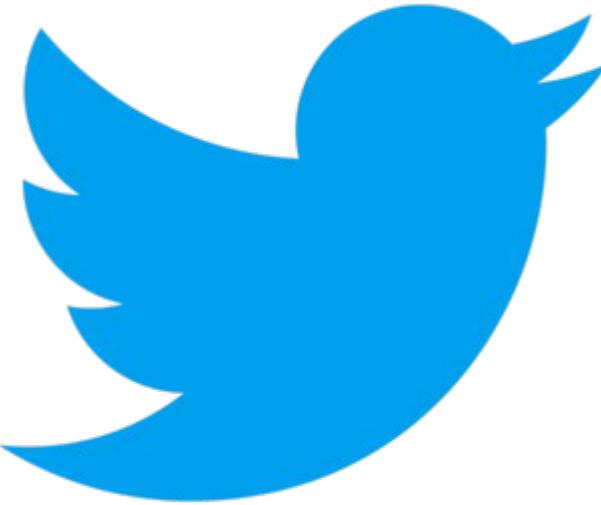
Backboning Techniques



Backboning Techniques



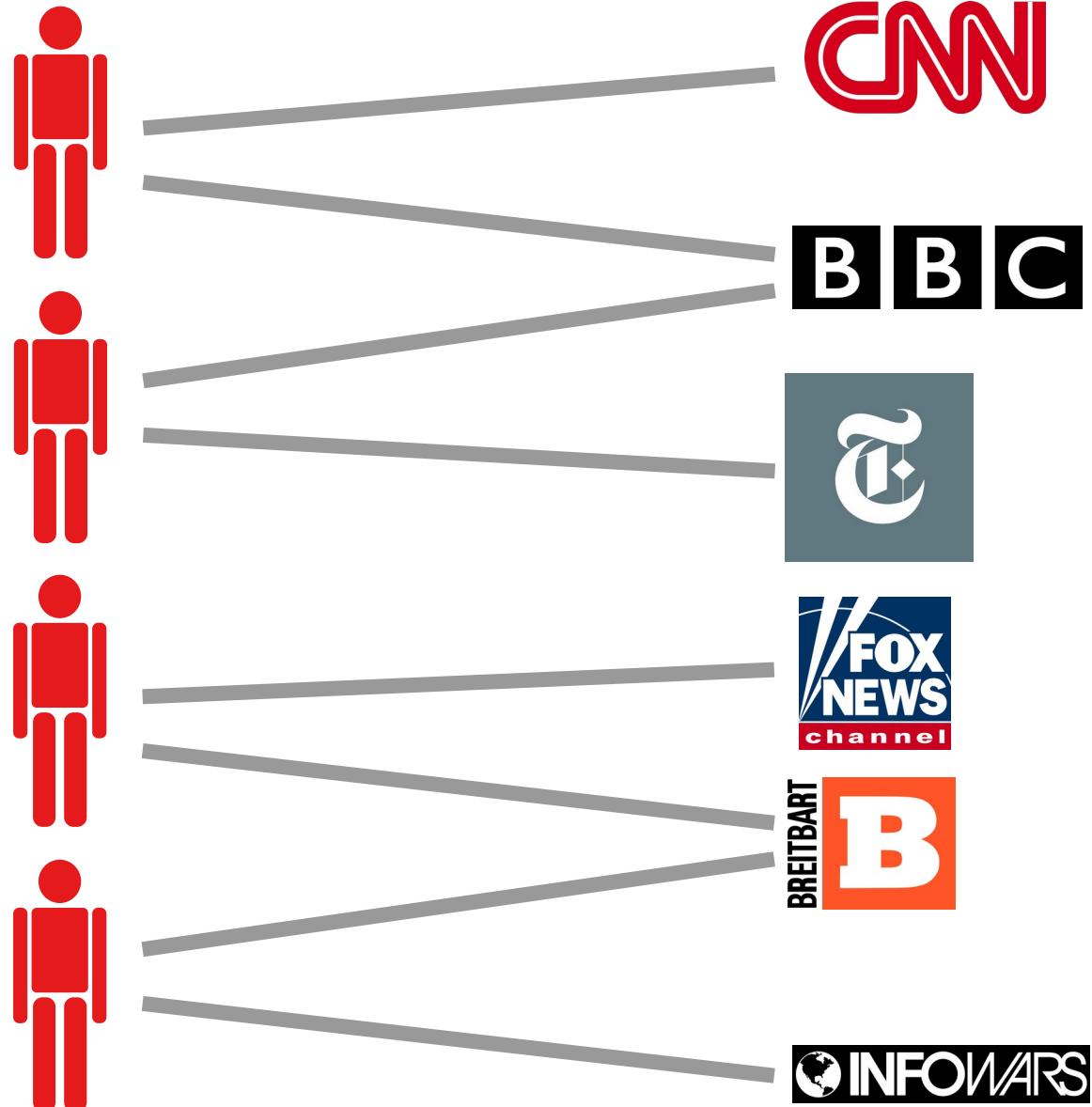
The Data

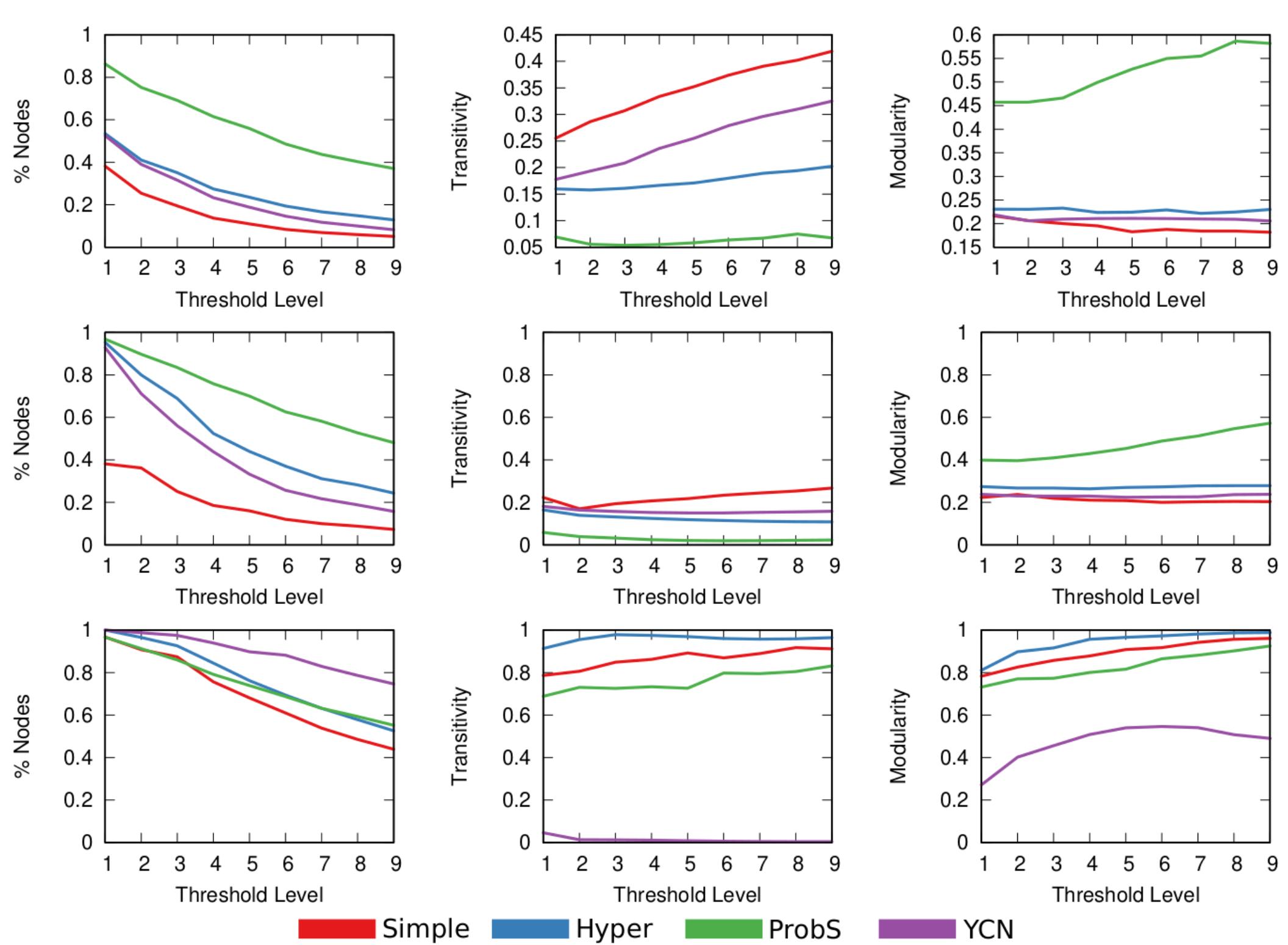


**Which news outlets
are similar?**

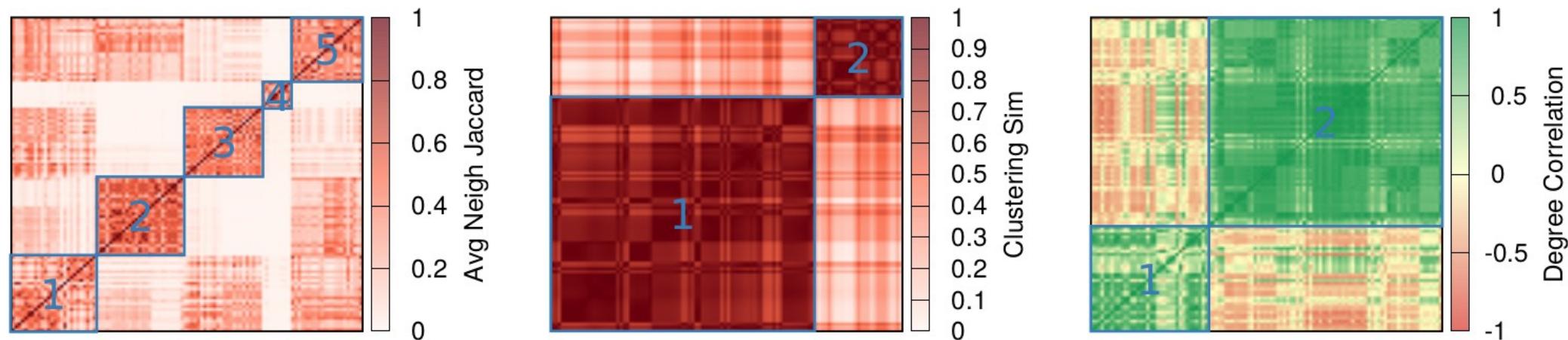
**Is there
centralization?**

**Are there
communities of
news?**

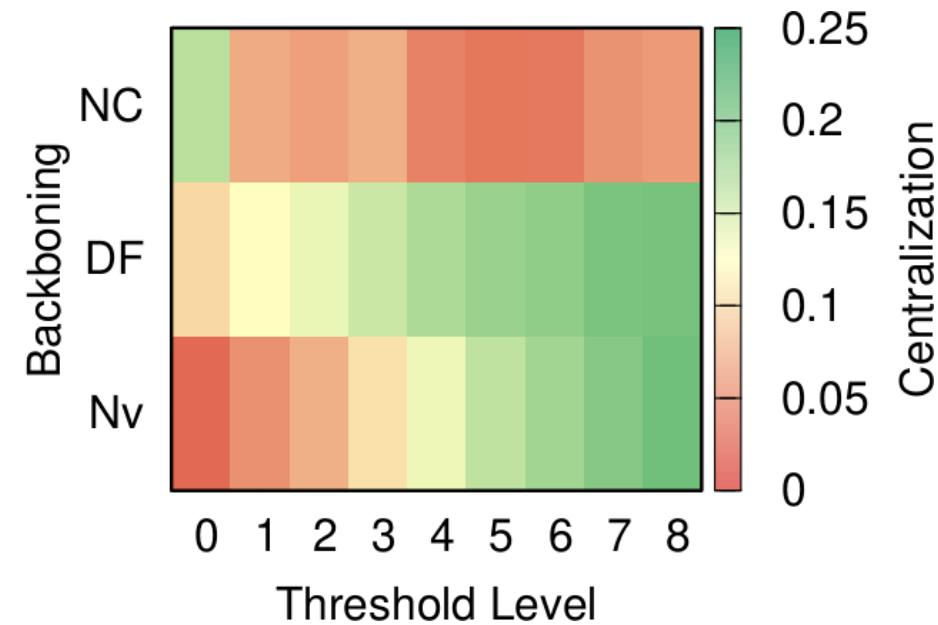
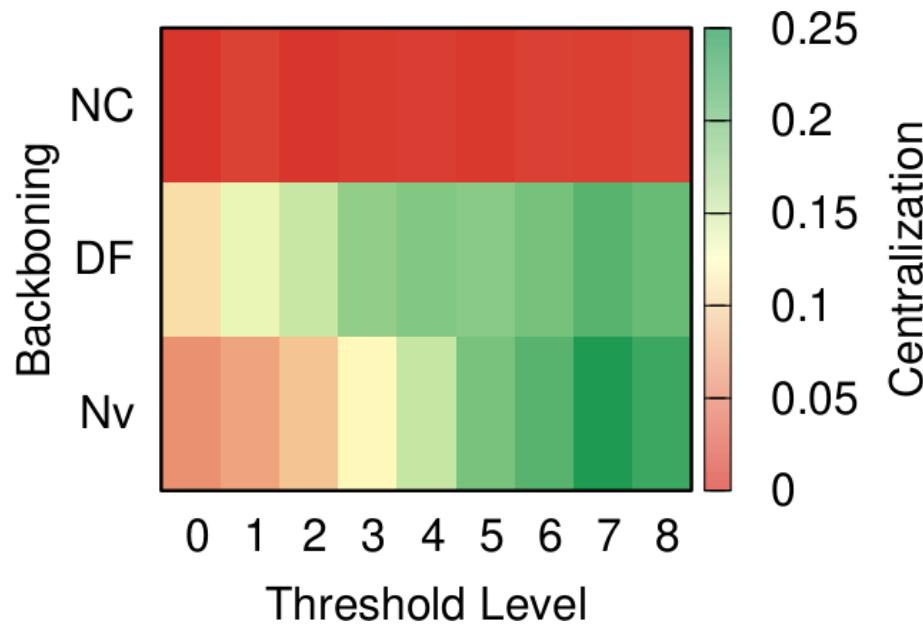
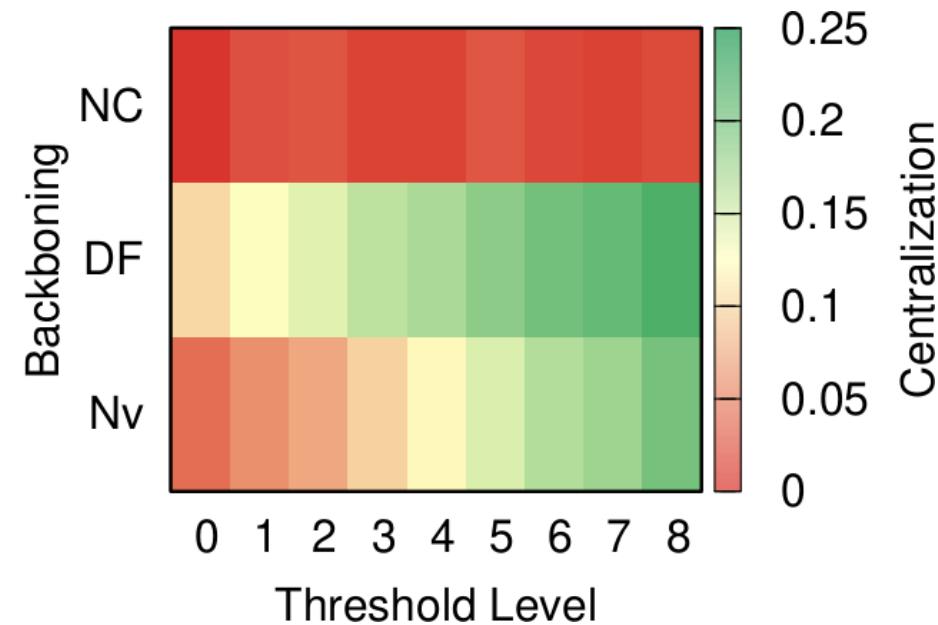
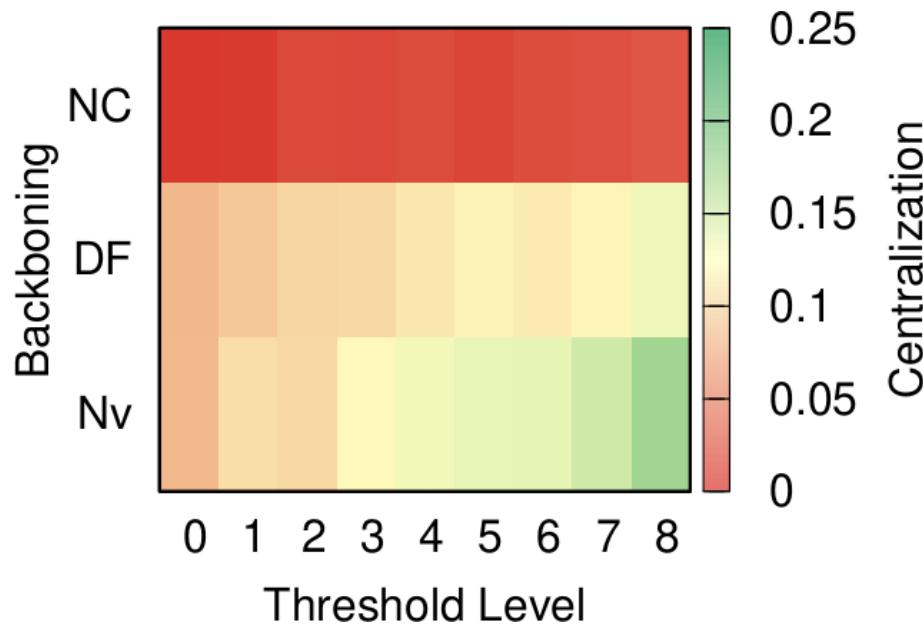




Can we Find Clusters?



Centralization



Conclusions

- Projection + Backboning has a huge impact
- There are clusters of strategies
- Beware not to impose a result by construction

Thanks

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