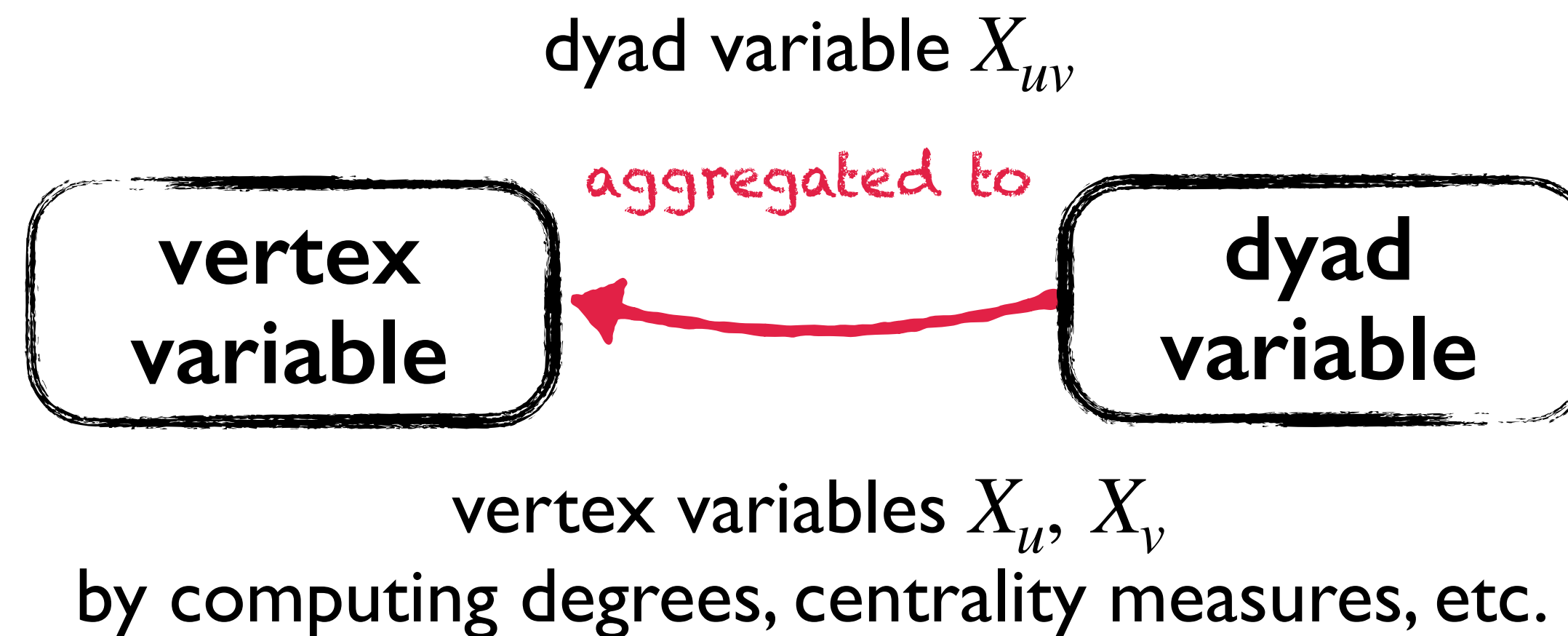


variable domains and range spaces

data editing

- ☑ all variables are defined with specified domains and range spaces
- ☑ only consider variables with the same domain together
- ☑ variables on different domains can sometimes be combined



dyad and triad sequences

node attribute X

undirected relation Y

directed relation Z

dyad sequences

$$S_{uv} = (X_u, X_v, Y_{uv}, Z_{uv}, Z_{vu})$$



example

$$S_{uv} = (1, 0, 1, 0, 1)$$



triad sequences

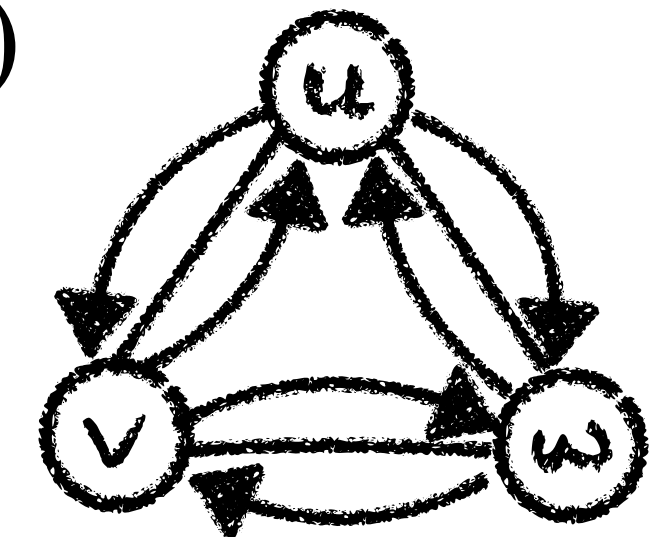
$$S_{uvw} = (X_{uvw}, Y_{uvw}, Z_{uvw})$$

where

$$X_{uvw} = (X_u, X_v, X_w)$$

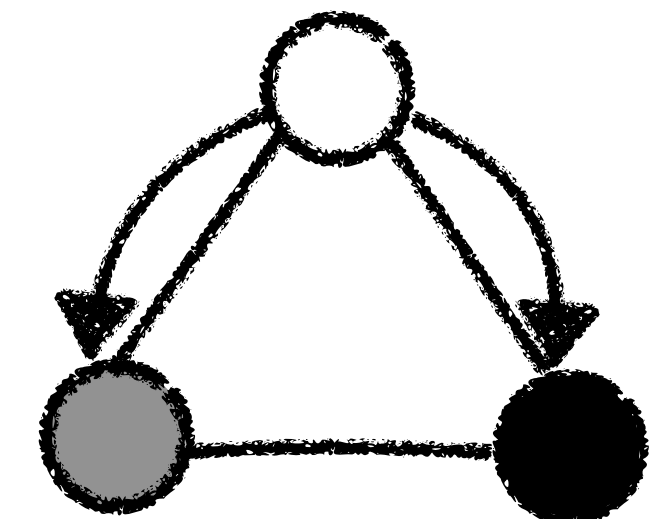
$$Y_{uvw} = (Y_{uv}, Y_{uw}, Y_{vw})$$

$$Z_{uvw} = (Z_{uv}, Z_{vu}, Z_{uw}, Z_{wu}, Z_{vw}, Z_{wv})$$



example

$$S_{uvw} = (0, 1, 2, 1, 1, 1, 1, 0, 1, 0, 0, 0)$$



index multiple variables of each kind e.g. for dyad variables:
 $(X_{1u}, X_{1v}, X_{2u}, X_{2v}, \dots, Y_{1uv}, Y_{2uv}, \dots, Z_{1uv}, Z_{1vu}, Z_{2uv}, Z_{2vu}, \dots)$