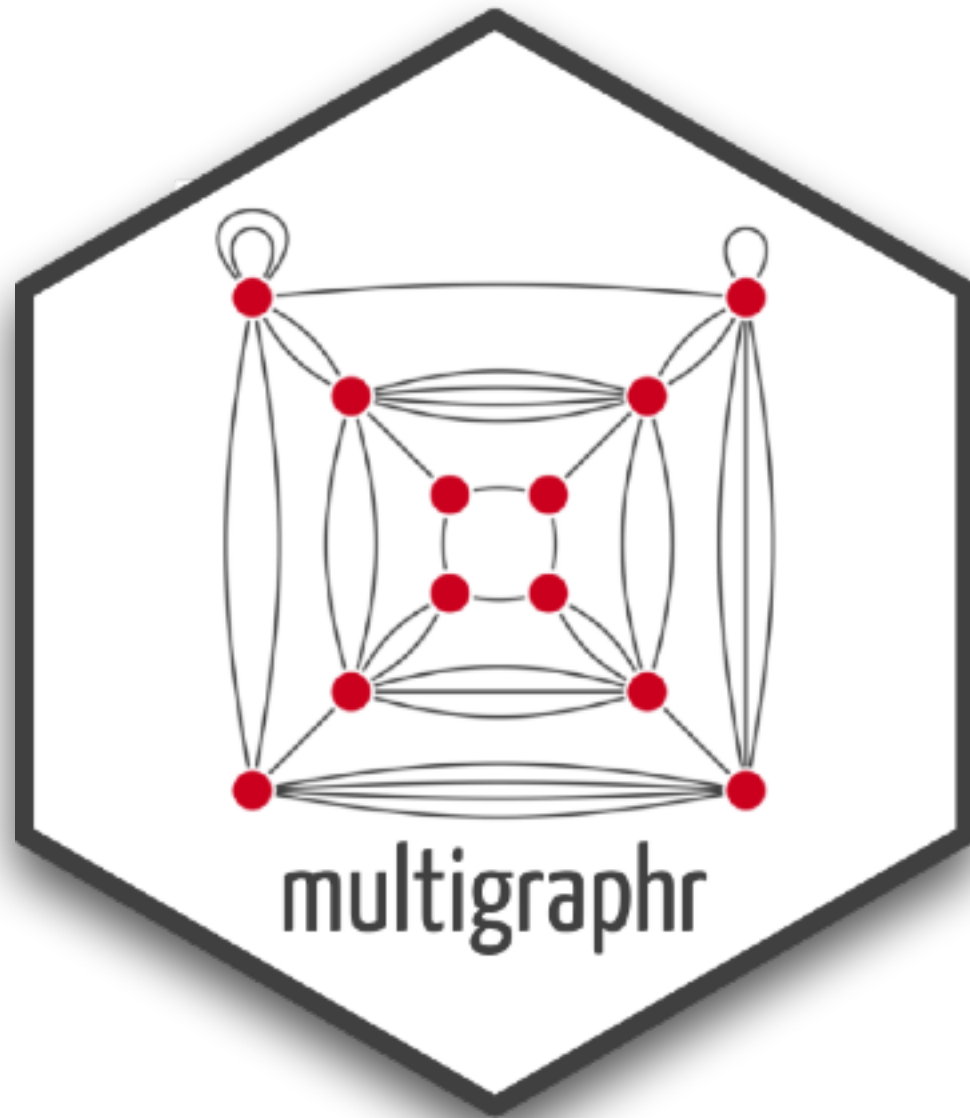


the theater

- ✓ Shafie, T. (2015). A multigraph approach to social network analysis. *Journal of Social Structure*, 16, 1-21.
- ✓ Shafie, T. (2016). Analyzing local and global properties of multigraphs. *The Journal of Mathematical Sociology*, 40(4), 239-264.
- ✓ Frank, O., Shafie, T., (2018). Random Multigraphs and Aggregated Triads with Fixed Degrees. *Network Science*, 6(2), 232-250.
- ✓ Shafie, T., Schoch, D. (2021) Multiplexity analysis of networks using multigraph representations. *Statistical Methods & Applications* 30, 1425–1444.
- ✓ Shafie, T. (2022). Goodness of fit tests for random multigraph models, *Journal of Applied Statistics*. 1-26



R package: <https://cran.r-project.org/package=multigraphr>

I CAN'T BELIEVE SCHOOLS
ARE STILL TEACHING KIDS
ABOUT THE NULL HYPOTHESIS.

I REMEMBER READING A BIG
STUDY THAT CONCLUSIVELY
DISPROVED IT *YEARS* AGO.



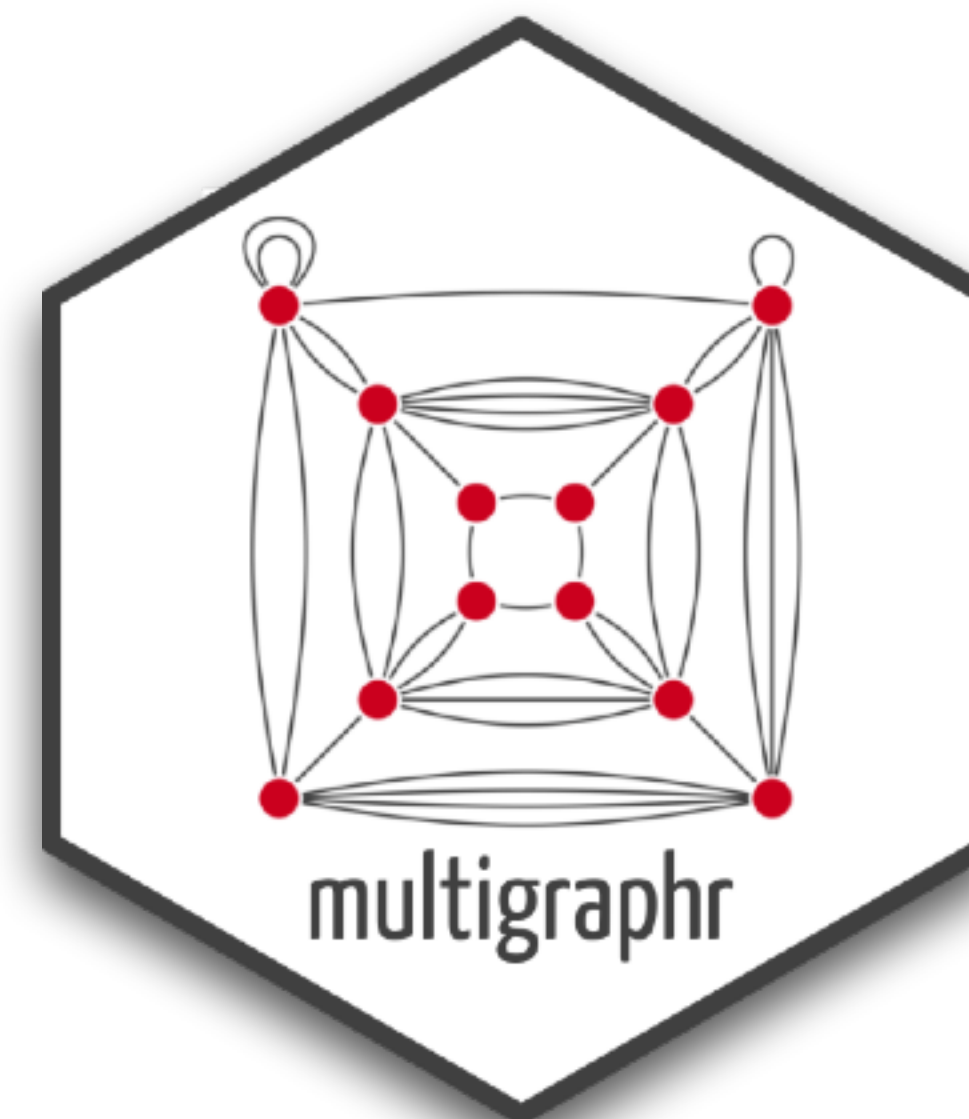
the theoretical background

I CAN'T BELIEVE SCHOOLS
ARE STILL TEACHING KIDS
ABOUT THE NULL HYPOTHESIS.

I REMEMBER READING A BIG
STUDY THAT CONCLUSIVELY
DISPROVED IT YEARS AGO.



- ✓ Shafie, T. (2015). A multigraph approach to social network analysis. *Journal of Social Structure*, 16, 1-21.
- ✓ Shafie, T. (2016). Analyzing local and global properties of multigraphs. *The Journal of Mathematical Sociology*, 40(4), 239-264.
- ✓ Frank, O., Shafie, T., (2018). Random Multigraphs and Aggregated Triads with Fixed Degrees. *Network Science*, 6(2), 232-250.
- ✓ Shafie, T., Schoch, D. (2021) Multiplexity analysis of networks using multigraph representations. *Statistical Methods & Applications* 30, 1425–1444.
- ✓ Shafie, T. (2022). Goodness of fit tests for random multigraph models, *Journal of Applied Statistics*. 1-26



R package: <https://cran.r-project.org/package=multigraphr>

multivariate networks