Probabilistic model from BN
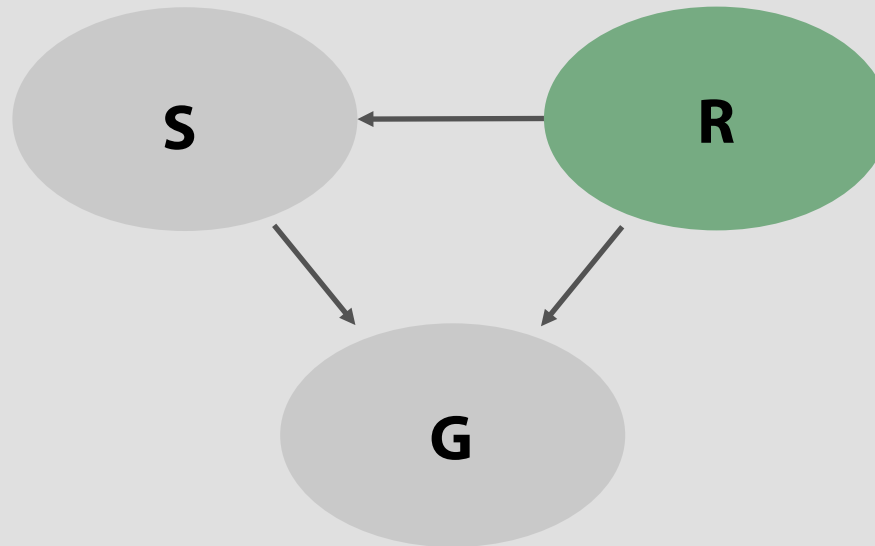
Model: joint probability over all variables

$$P(S, R, G) = P(G|S, R) \cdot P(S|R) \cdot P(R)$$