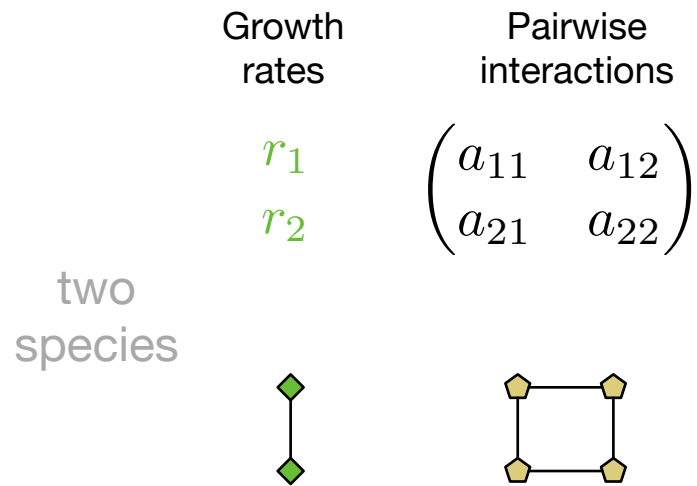


Lotka-Volterra dynamics



Replicator dynamics

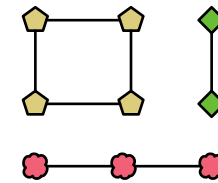
(a) Up to pairwise interactions



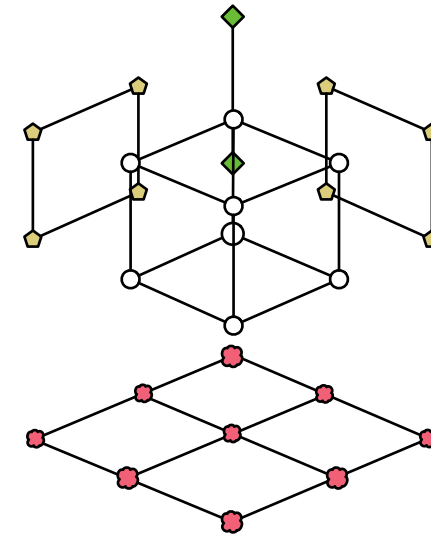
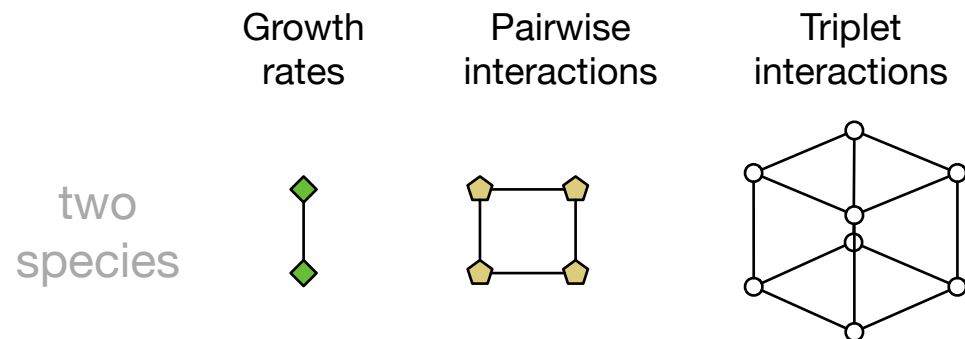
Payoffs

$$\begin{pmatrix} b_{11} & b_{12} & b_{13} \\ b_{21} & b_{22} & b_{23} \\ b_{31} & b_{32} & b_{33} \end{pmatrix}$$

two players with three strategies

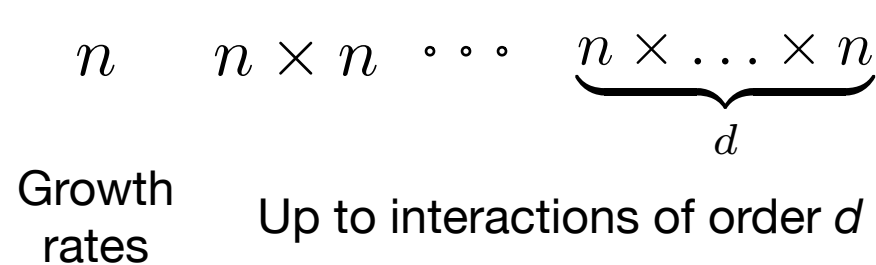


(b) Up to triplet interactions



three players with three strategies

(c) Up to order d interactions for n species



$\underbrace{(n+1) \times \dots \times (n+1)}_d$

d players with $n+1$ strategies