# Competition Model

- Species A
  - $d\text{species}_A / dt = (r_A * (1\text{-species}_A / K_A)*)\ \text{species}_A - \alpha_{AB} * \text{speciesA} * \text{speciesB}$
- Species B
  - $d\text{species}_B / dt = (r_B * (1\text{-species}_B / K_B)*)\ \text{species}_B - \alpha_{BA} * \text{speciesA} * \text{speciesB}$

Similar to predictor - prey models - building on logistic growth

# Types of Models:

Conceptual.....Mathematical

Static……Dynamic :*TIME*

Lumped.....Spatially Distributed: *SPACE*

Stochastic.....Deterministic

Abstract……Physically/Process Based

but biggest differences may often be the degree specific processes/parameters are accounted for