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# Competition Model

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- ❖ Species A

- ❖  $dspecies_A / dt = (r_A * (1 - species_A / K_A) - \alpha_{AB} * species_A * species_B)$

- ❖ Species B

- ❖  $dspecies_B / dt = (r_B * (1 - species_B / K_B) - \alpha_{BA} * species_A * species_B)$

Similar to predator - prey models - building on logistic growth

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## Types of Models:

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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