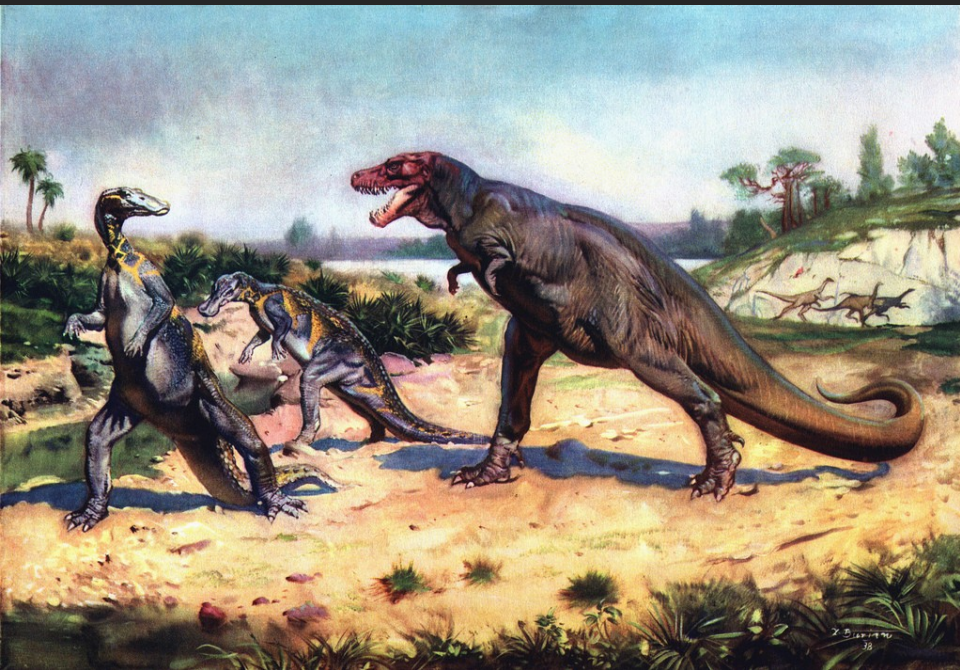


Why do environments change through time?



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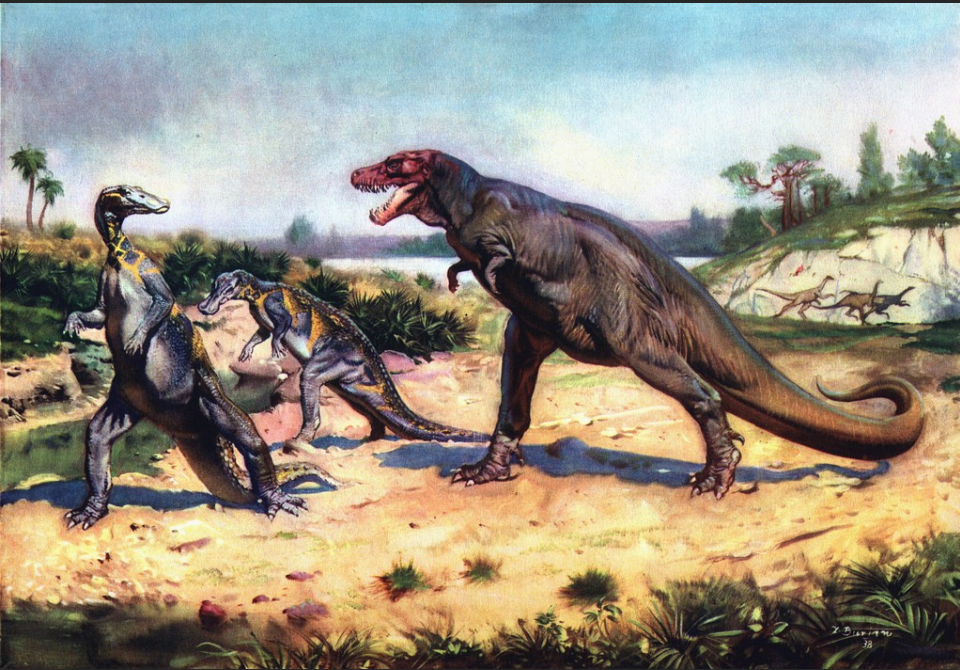
Why = mechanism
(turnover, selection, competition)

Why do environments change through time?

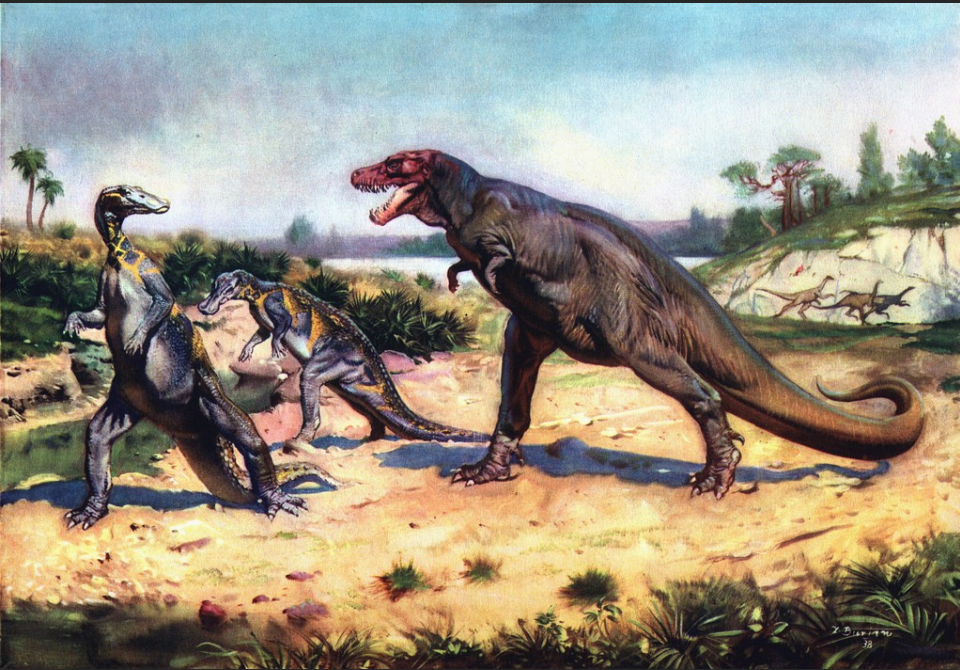


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(turnover, selection, competition)

Competition (why): How does it change through time?



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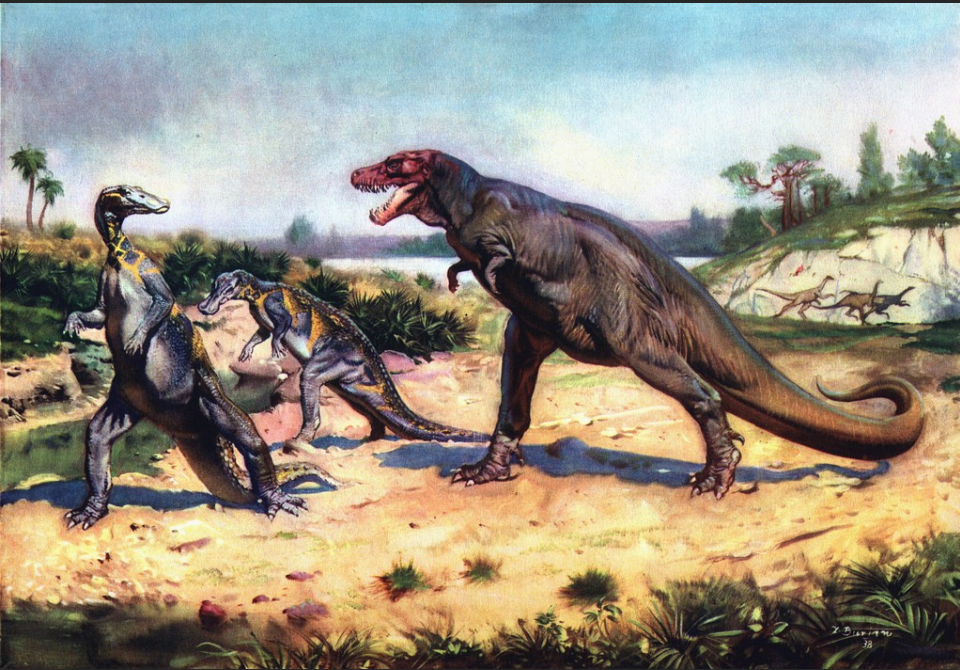
Number of species through time:

Dinosaurs = ; Dinosaurs =

Mammals = ; Mammals =

Competition (why):

How does it change through time?

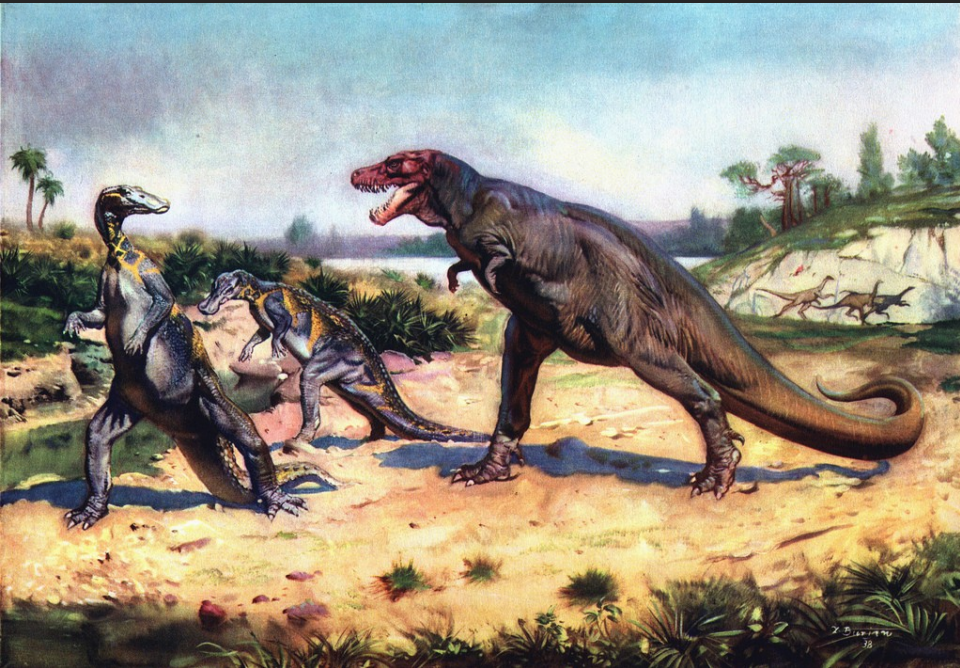


Number of species through time:

Dinosaurs = 3 ; Dinosaurs =
Mammals = 0 ; Mammals =

Competition (why):

How does it change through time?



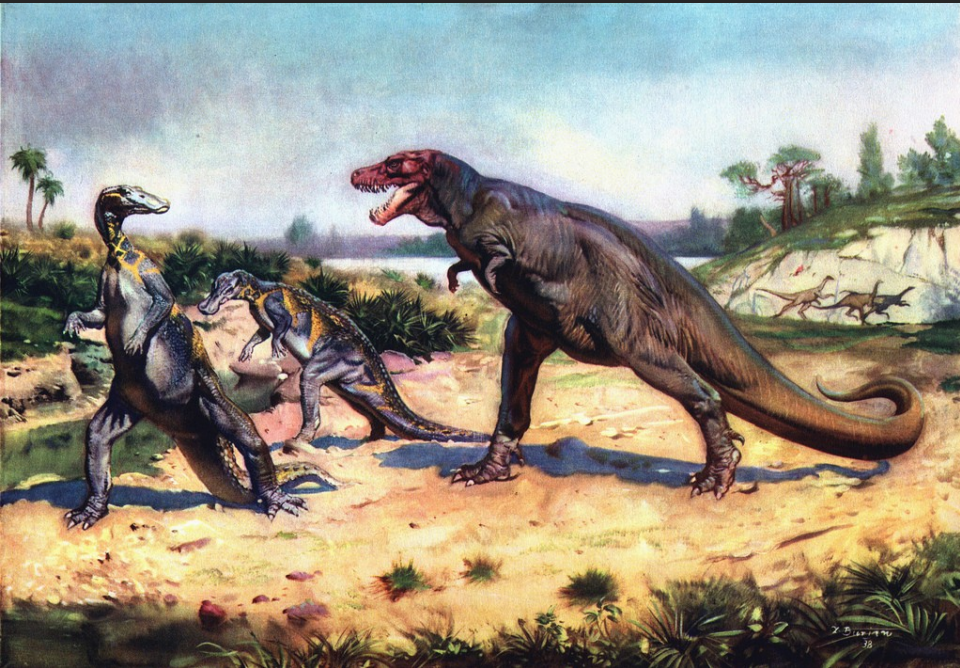
Number of species through time:

Dinosaurs = 3 ; Dinosaurs = 1

Mammals = 0 ; Mammals = 3

Competition (why):

How does it change through time?



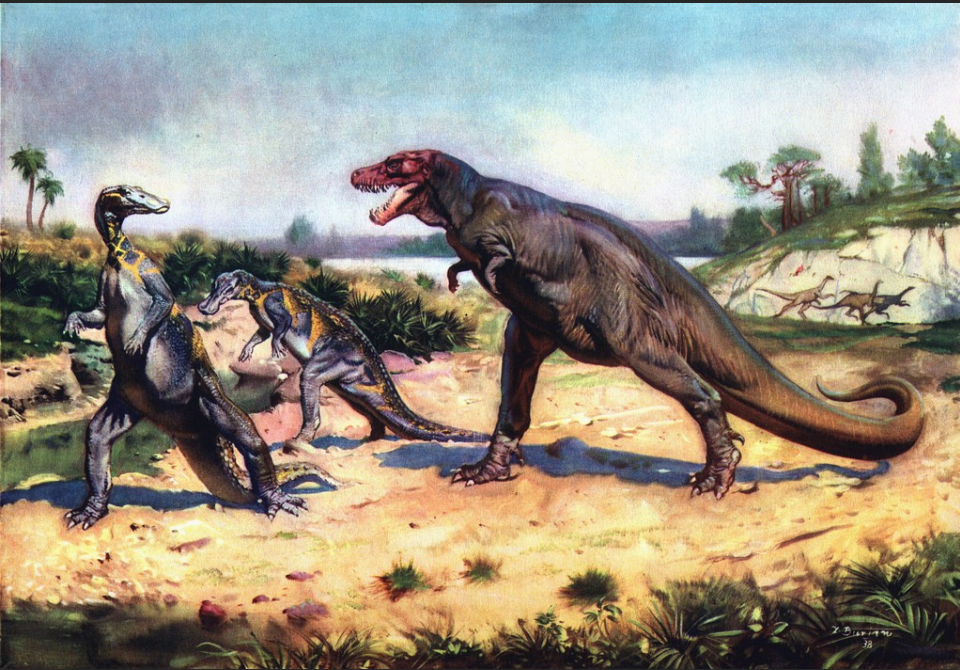
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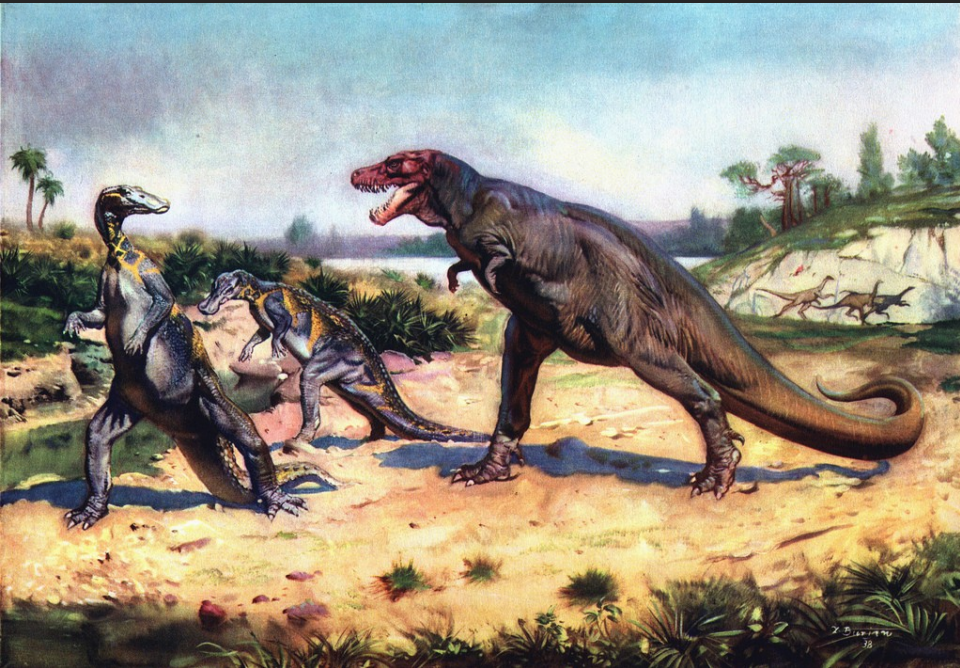
Number of species through time:

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Mammals = 0 ; Mammals = 3

Competition?

Competition through time: What is changing?

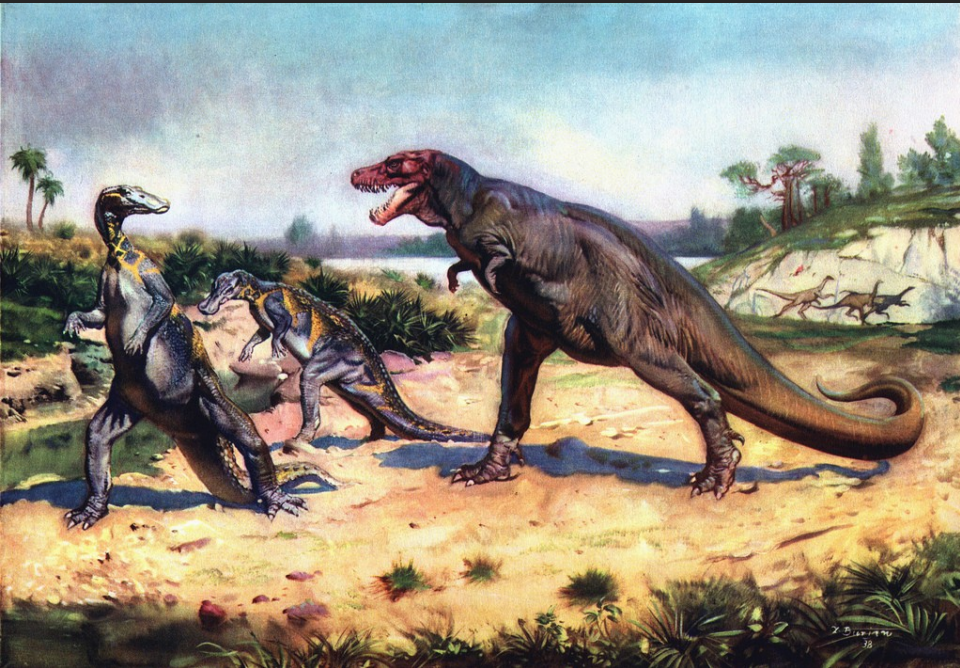


Pattern through time:

Dinosaurs = 3 ; Dinosaurs = 1

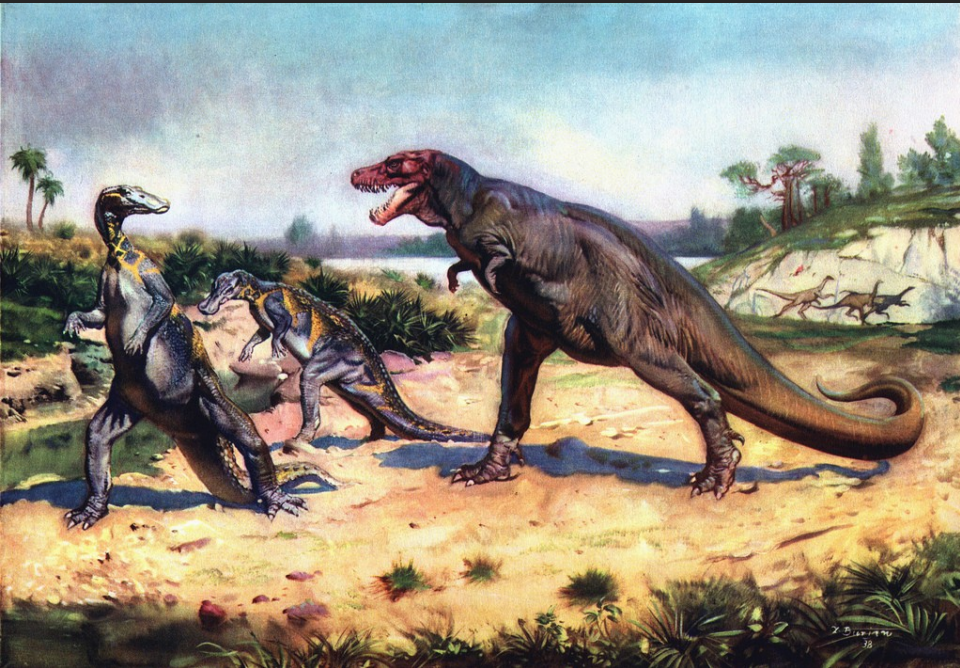
Mammals = 0 ; Mammals = 3

Competition through time: What is changing?



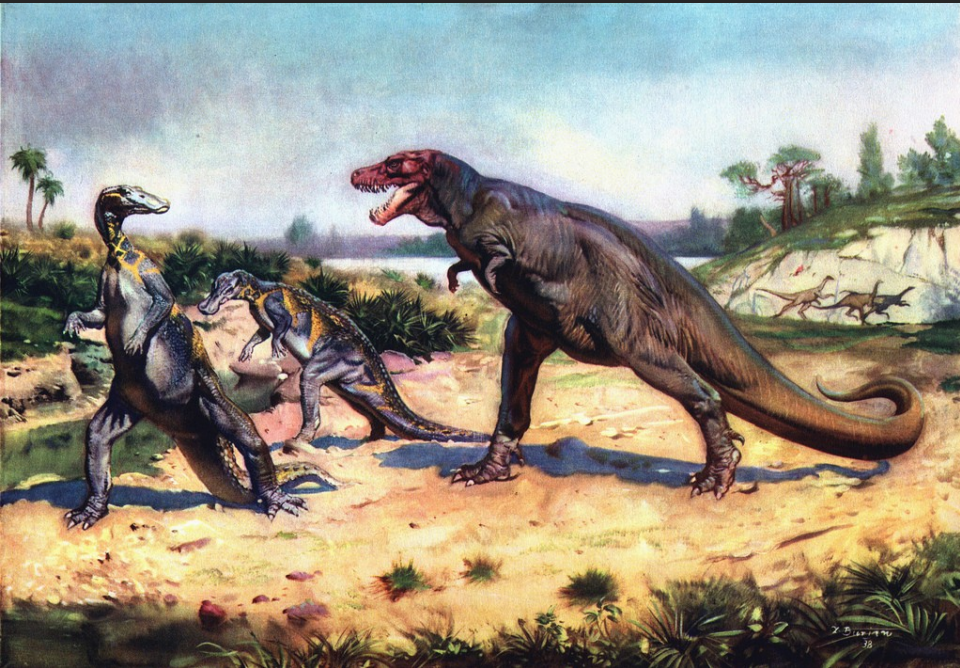
Competition?
Change of pattern through time

Competition through time: What is changing?



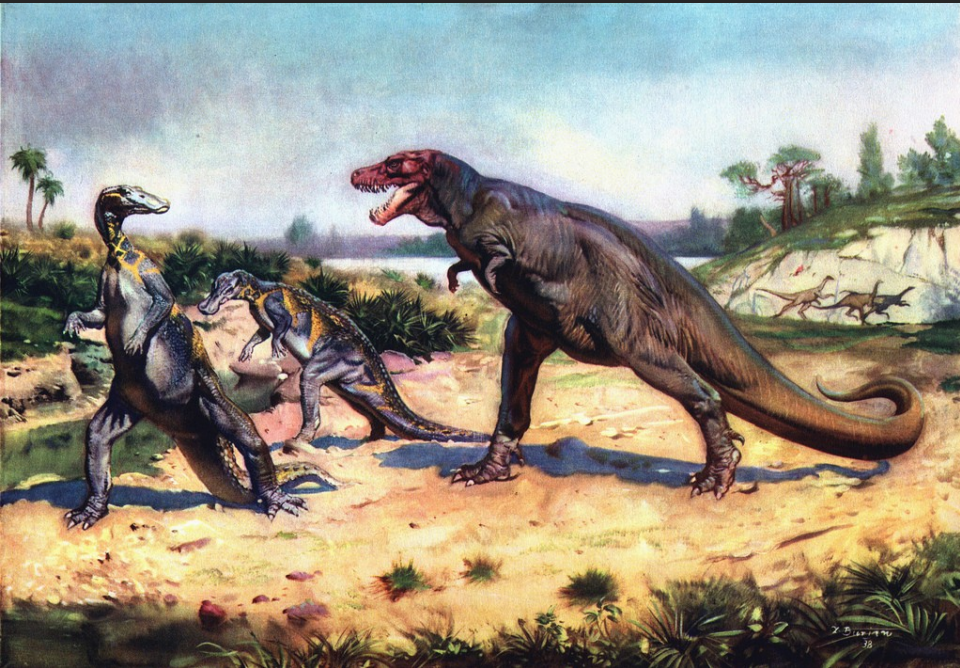
Competition? pattern through time
pattern = number of species per group
pattern = total number of species

Competition through time: What is changing?



Competition? **pattern** through time
pattern = number of species per group
pattern = total number of species

Competition through time: What is changing?



Pattern through time:

species = 3 ; species = 4

Competition???