

# An Organism's Niche

- The unique role of a species within an ecosystem is a **niche**
  - An **ecosystem** is all of the organisms living in an area together with their physical environment
  - It includes their physical home, the environmental factors necessary for survival, and all interactions with other organisms
  - It is different than a **habitat** (where an organism lives)

# Ways in Which Species Interact

- Interactions are categorized by how one population interacts with another
- These interactions depend on whether they harm or help one another
- Some interactions are direct, others are indirect
- This is still being studied to better understand its complexities

# Competition

- A relationship in which different individuals or populations attempt to use the same limited resource
- Each individual can be harmed by the competition
- Can occur within or between species
- Ex. Fox and coyote compete for the same prey



# Competition

## Indirect Competition

- Some species may never come in contact with each other and still compete
- Ex. One type of insect during the day and another at night

## Adaptations

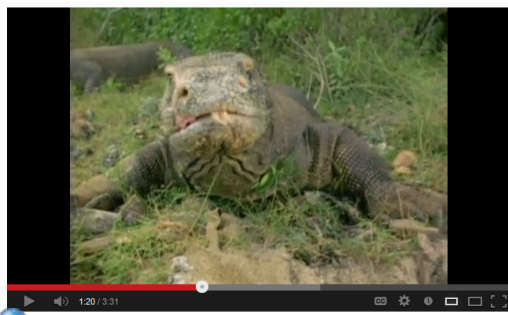
- Some species reduce competition with each other by adjusting their niche
- This is called *niche restriction*

# Predation

- An organism that feeds on another organism
- The organism that is fed upon is called the **prey**
- Ex. Coyote and deer
- Many species have evolved some mechanisms to avoid or defend against predators



# Predation in action...



Nature's Perfect Predators - Komodo Dragon



Golden Eagle vs. Jackrabbit



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Nature's Perfect Predators- Praying Mantis

# Some more predation...



Viking Wilderness - Wolves and Bears Clash

<http://safeshare.tv/w/RtMLeerijm>



<http://safeshare.tv/w/CVYeIWRLqA>



<http://safeshare.tv/w/DgMXOFqBTc>



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