competition and predation

- **Competition**: one wins, one loses
- Could be energy, food, mates, money, whatever
- **Competitive exclusion principle:** only one winner (assumes a limited resource)
- This impacts evolution: if there is overlap between two competitors for a limited resource, natural selection will favor the ones that don't overlap, since they don't have to compete for those resources:

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This is called **Resource partitioning** (biologists love words like this)
Note that the two curves separate...

Predator-prey and other fun stuff:

- **Predation**: one lives, one dies, example lion eats a zebra
- **Parasitism**: one lives, other lives off of them (bad manners to kill the host), example worms
- **Mutualism**: both win, example Egrets on back of horses or cows: egrets eat bugs, horse protects the egrets from ground predators
- **Commensalism**: one wins, the other does not care, example orchids growing on branches
- **Herbivory**: only plants die (e.g. cows)

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