

BLUE
CAT AND MOUSE (PREDATION)

Introduction: One day I woke up to my cat, Superhero, meowing. I hopped out of bed and saw three mice on my floor, a decapitated mouse, a dead mouse and my cat was killing a mouse right on my brand new rug! I am interested in this symbiosis because my cat has been bringing dead animals into my room for as long as I can remember. I want to know more about the animals he brings in, specifically a mouse, the animal he most frequently bring in the house. I care about this because it's my cat, and I want to know about the things he hunts. I also want to know more about why he brings the animals in, is it for fun? For food?

Claim: I observed one organism of one species, a cat, *felis catus*, and a second organism of a different species, deer mouse, *mus*, in a symbiotic relationship of predation (a plus for one and a minus for another).

Evidence: All my information I gathered was at my house, located at 6 Grove St, Camden, Maine. Based on my cats features and the mice he has brought in. The weather each day he has brought in a mouse hasn't been to hot I would say around 50-60 degrees, cloudy.



Image 1: A dead deer mouse killed by my cat, taken on 10-5-18 at my house, Grove St, Camden.
(Image by Author)

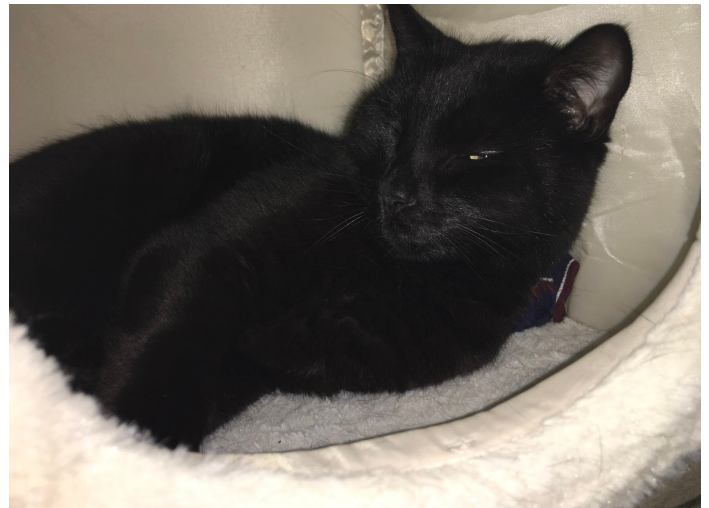


Image 2: My black bombay cat, Superhero, taken on 10-5-18 at my house, Grove St, Camden. (Image by Author)

Reasoning: A symbiosis is the interaction between two different organisms (a cat and a mouse, in this case.) My symbiosis is predation, a plus for one thing but a minus for the other, (plus for the cat minus for the mouse.) Domestic cats are found wherever humans live and deer mice are found all over most of North America.

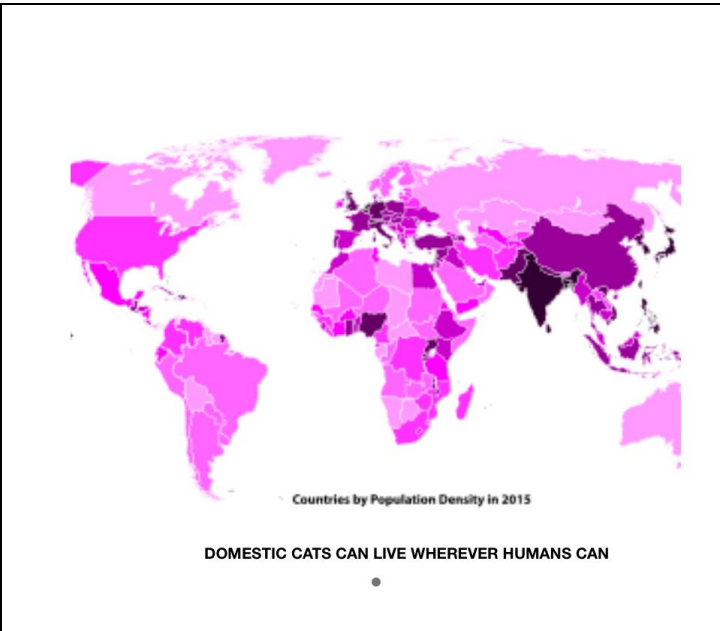
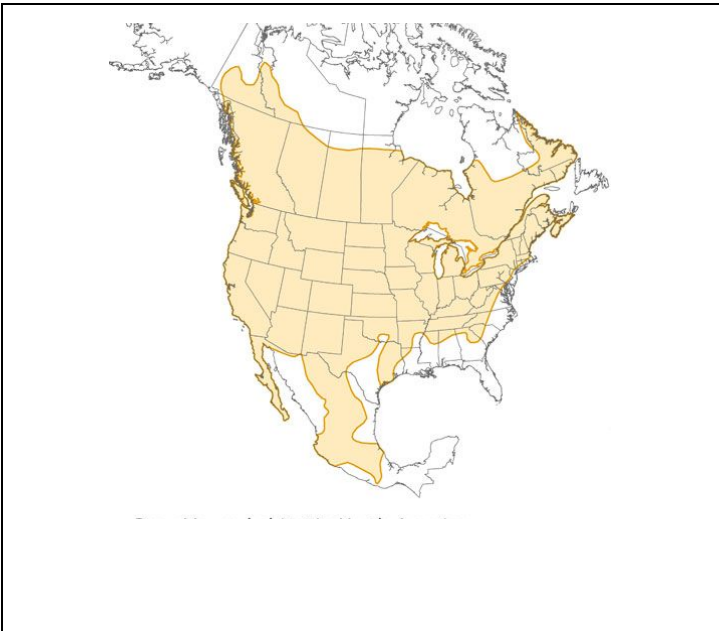


Image 3: Range of the deer mouse, includes the location observed. (CDC.gov)

Image 4: Range of the domestic cat (everywhere humans live). (Ipas.io)
Edited by author

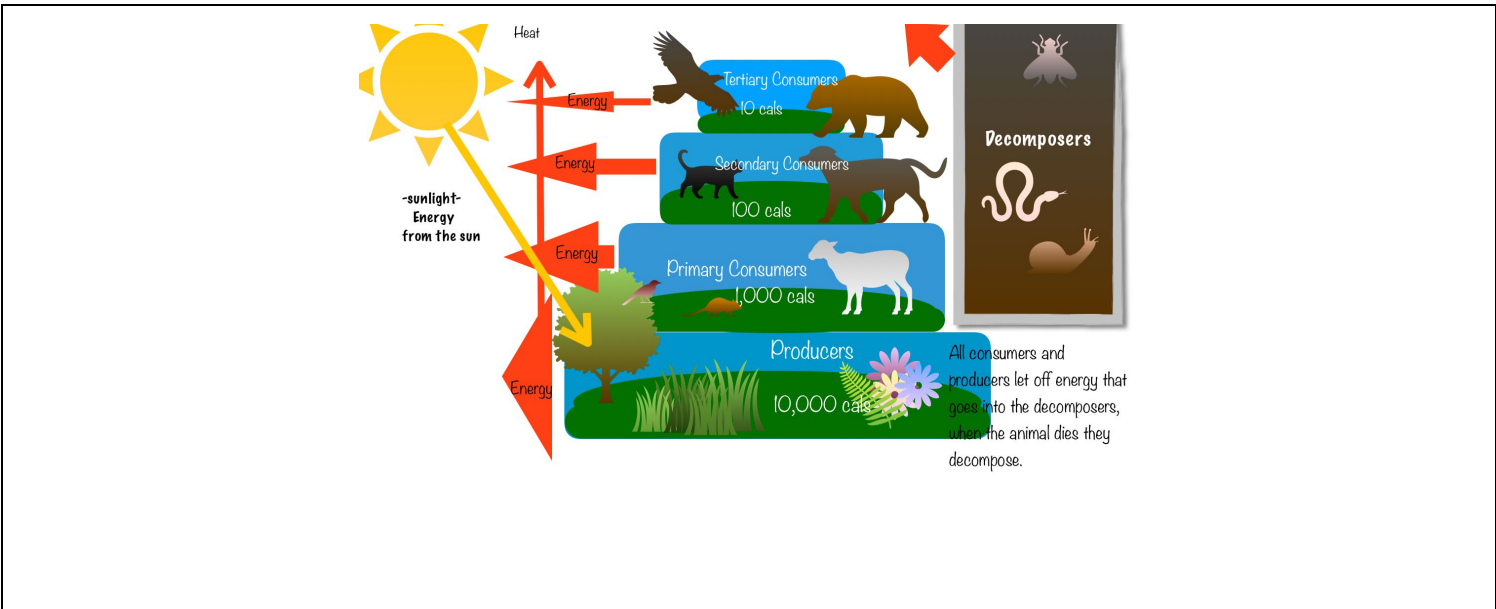


Image 4: This energy flow diagram shows how energy flows from one organism, to another. The primary producers photosynthesize (which means they collect and store sunlight’s energy and when the molecules are burned, they release that energy) and they provide food and energy to the primary consumers. Who are then consumed by the secondary consumers who are finally consumed by the tertiary consumers. All of these consumers and producers let off heat and energy, and eventually when they die they decompose. The decomposers let off energy, that help to create new plants and the chain starts all over again. But my diagram follows two rules of the ecosystem. The first one is that Energy cannot be created or destroyed, the second is

that no energy flow is 100% efficient. My organisms (cat and mouse, predation) fit into this energy transfer because the cat, which is a secondary consumers, eats the mouse, a primary consumer. (Image by author.)

Conclusion: In this paper I have shown that I have observed a black Bombay cat, and a deer mouse in a symbiotic relationship of predation. This symbiotic relationship is interesting to me because I find how animals interact very interesting. I also enjoy learning about my pets, a dog named Rosie, and a cat (which I am doing this paper on,) named Superhero.

Works Cited:

<https://www.cdc.gov/hantavirus/rodents/index>.

https://ipfs.io/ipfs/QmXoypizjW3WknFiJnKLwHCnL72vedxjQkDDP1mXWo6uco/wiki/Population_density.html