

THE GOOD, THE BAD, AND THE BUGLY



WHAT IS AN INSECT?

- Kingdom: Animalia
- Phylum: Arthropoda <- Exoskeleton, segmented body, jointed appendages
- Subphylum: Hexapoda <- Six legs
- Class: Insecta <- Six legs, 2 pairs (4 total) wings, 3 body parts, antennae
- Order: Lepidoptera
- Family: Nymphalidae
- Genus: Danaus
- Species: *plexippus*



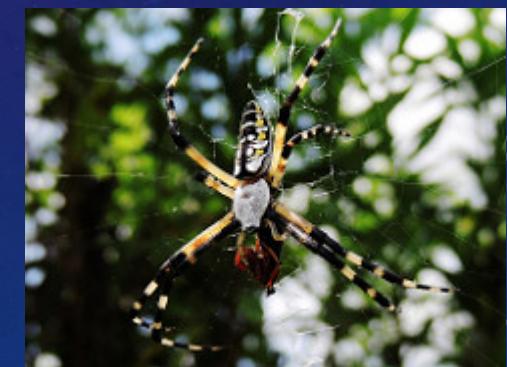
THE TRUTH ABOUT BUGS

- Kingdom: Animalia
 - Phylum: Arthropoda
 - Subphylum: Hexapoda
 - Class: Insecta
 - Order(27): Hemiptera



OTHER ARTHROPODS OF INTEREST

- Centipedes
- Millipedes
- Spiders
- Mites, ticks
- Daddy long legs
- Scorpions, whip scorpions, pseudoscorpions



GOOD AND BAD

- Bad: of poor quality; inferior or defective. Not good.
- Good: of high quality. Of somewhat high but not excellent quality. Correct or proper. Of a favorable character or tendency. Pleasant, pleasing, or enjoyable. Failing to reach an acceptable standard. Morally objectionable.

GOOD AND BAD

- Plant-feeders
- Parasites
- Predators
- Parasitoids
- Hyperparasites
- Pollinators
- Decomposers/composters



Plant-feeders, pests

Beneficials



BENEFITS OF PLANT FEEDERS

- Biocontrol (plants)
- Food for others
- Diversity
- Pollination
- Coevolution



BENEFITS OF PLANT FEEDERS

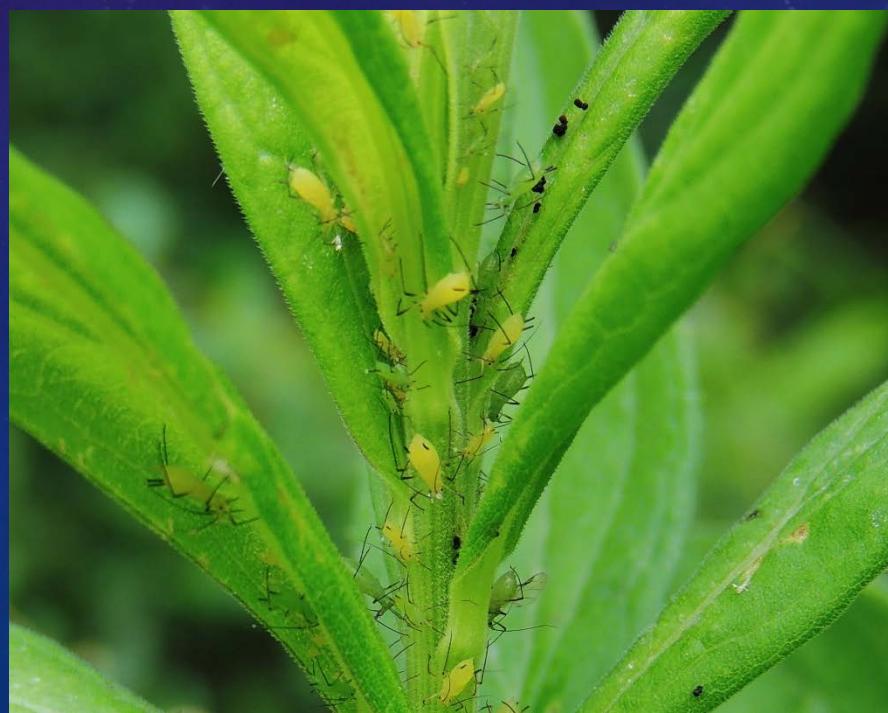
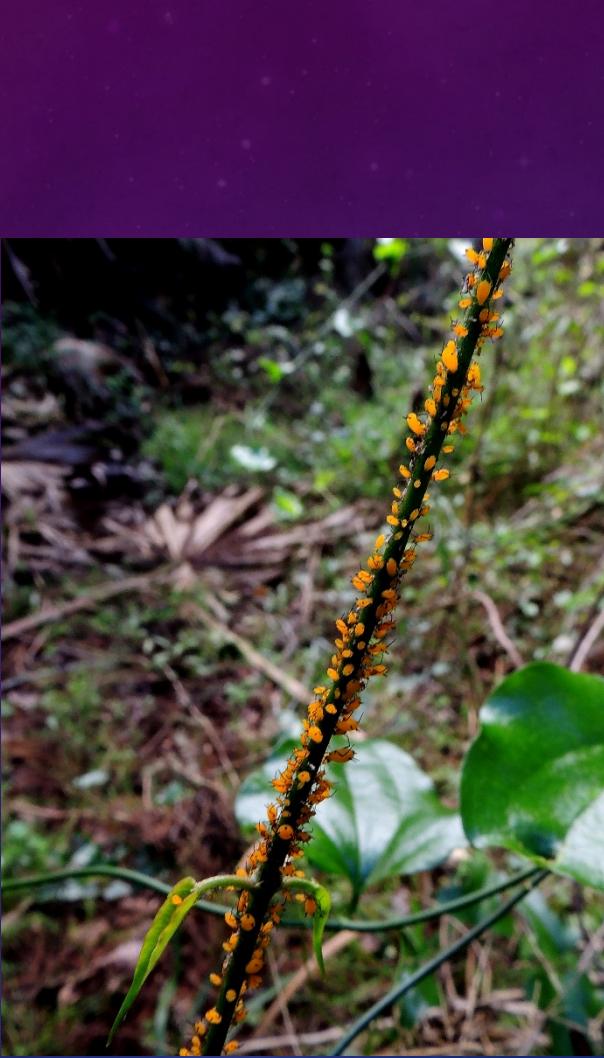


BENEFITS OF PLANT FEEDERS



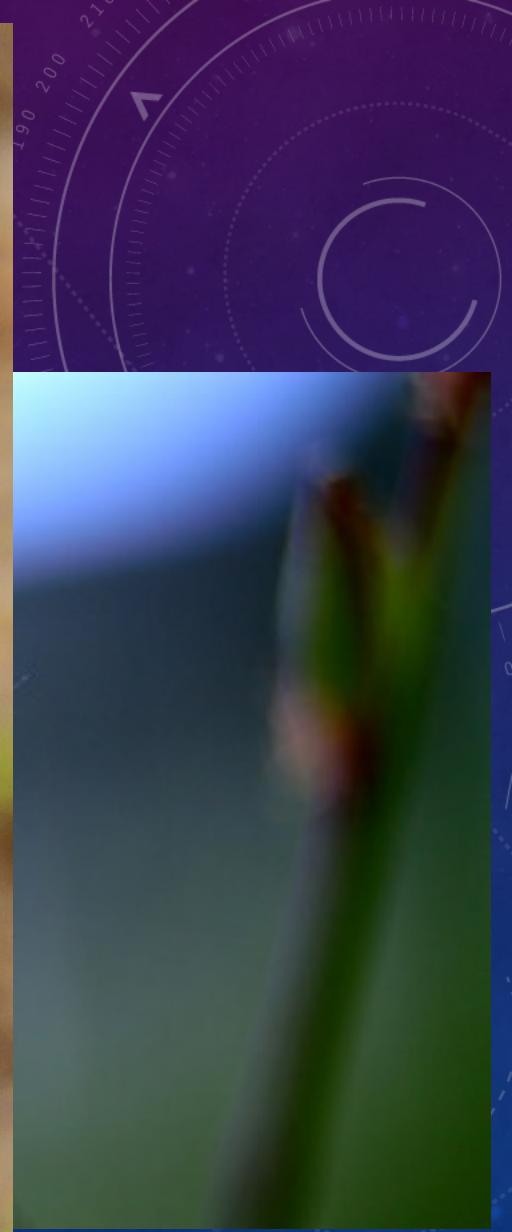
UMBONIA CRASSICORNIS







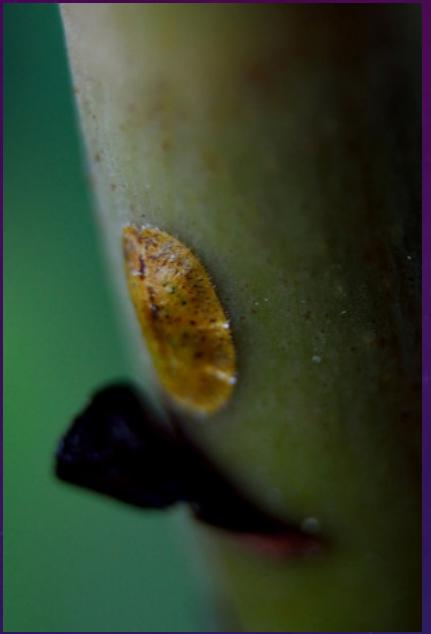




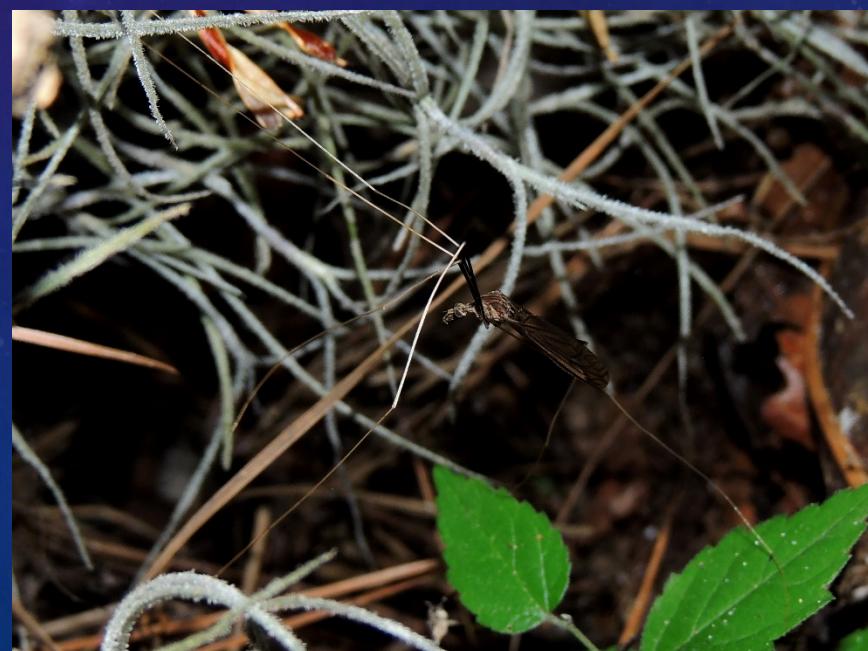






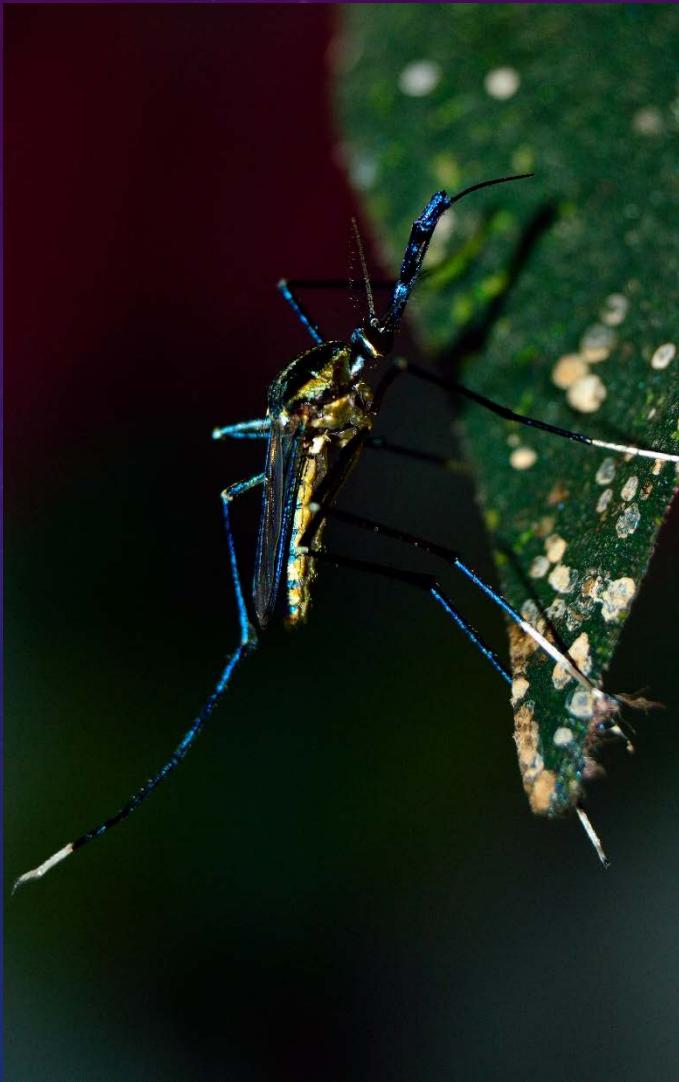


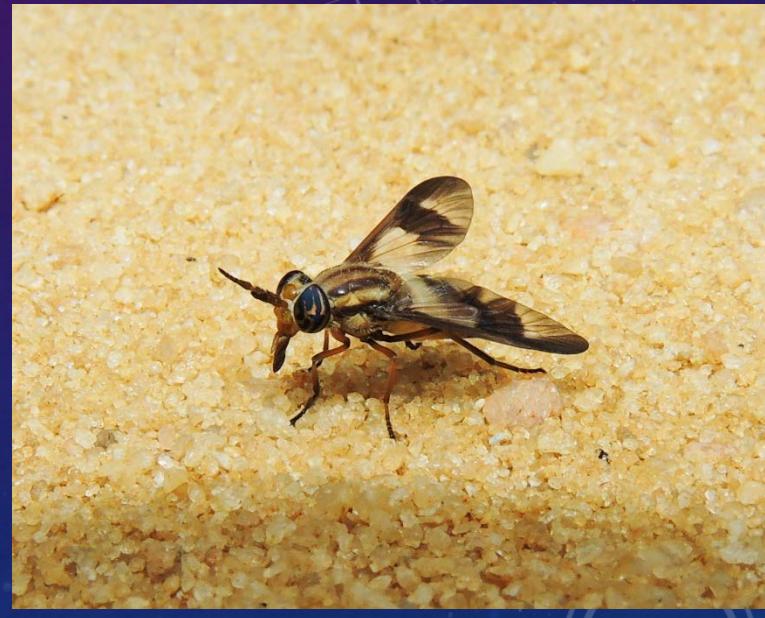






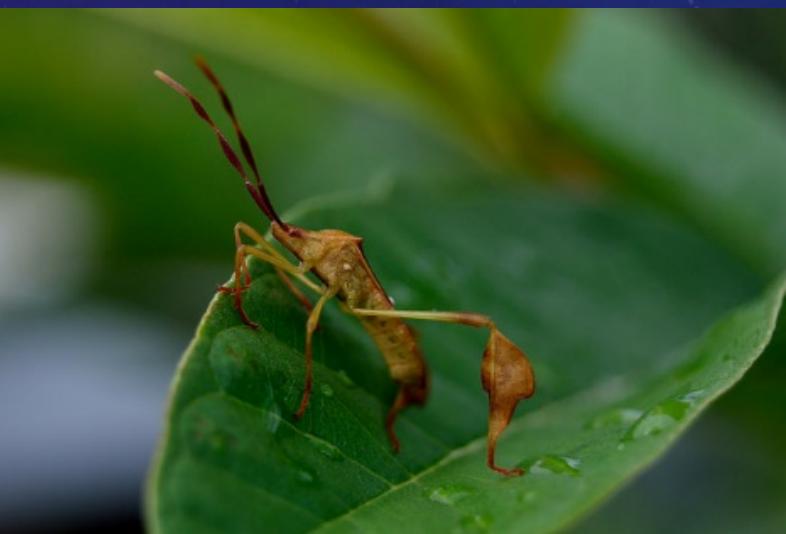
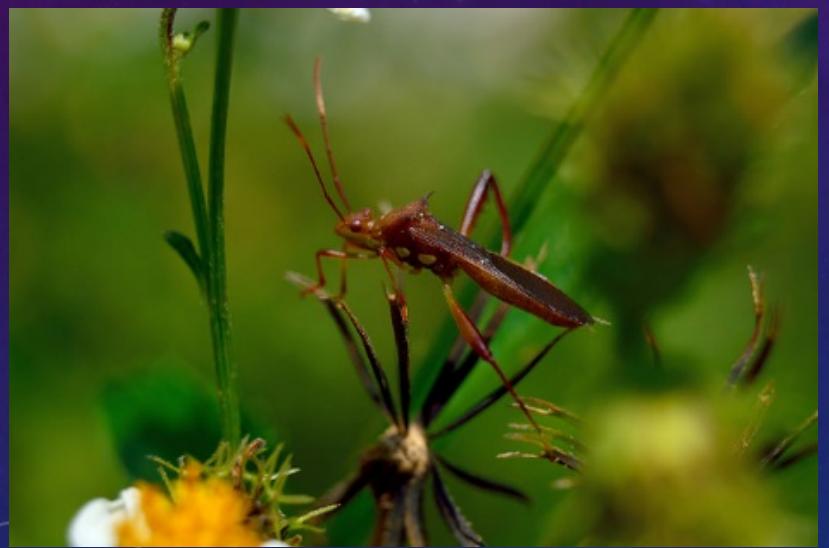
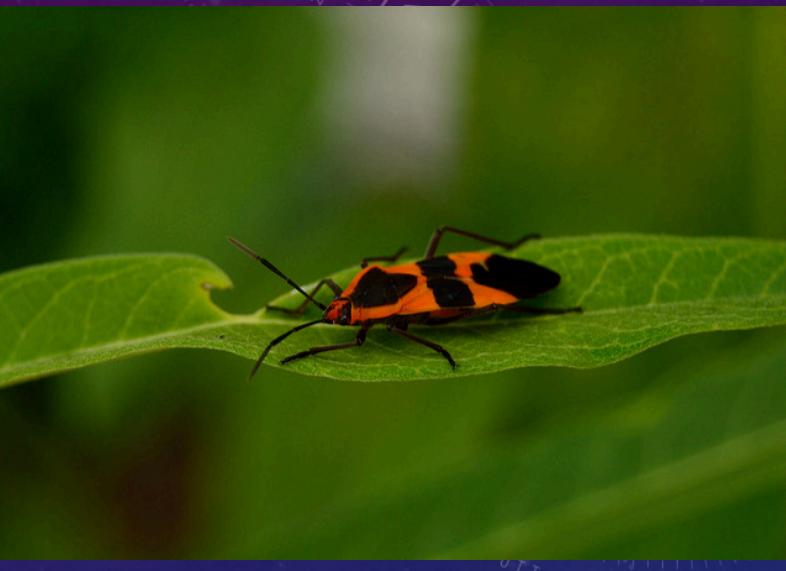
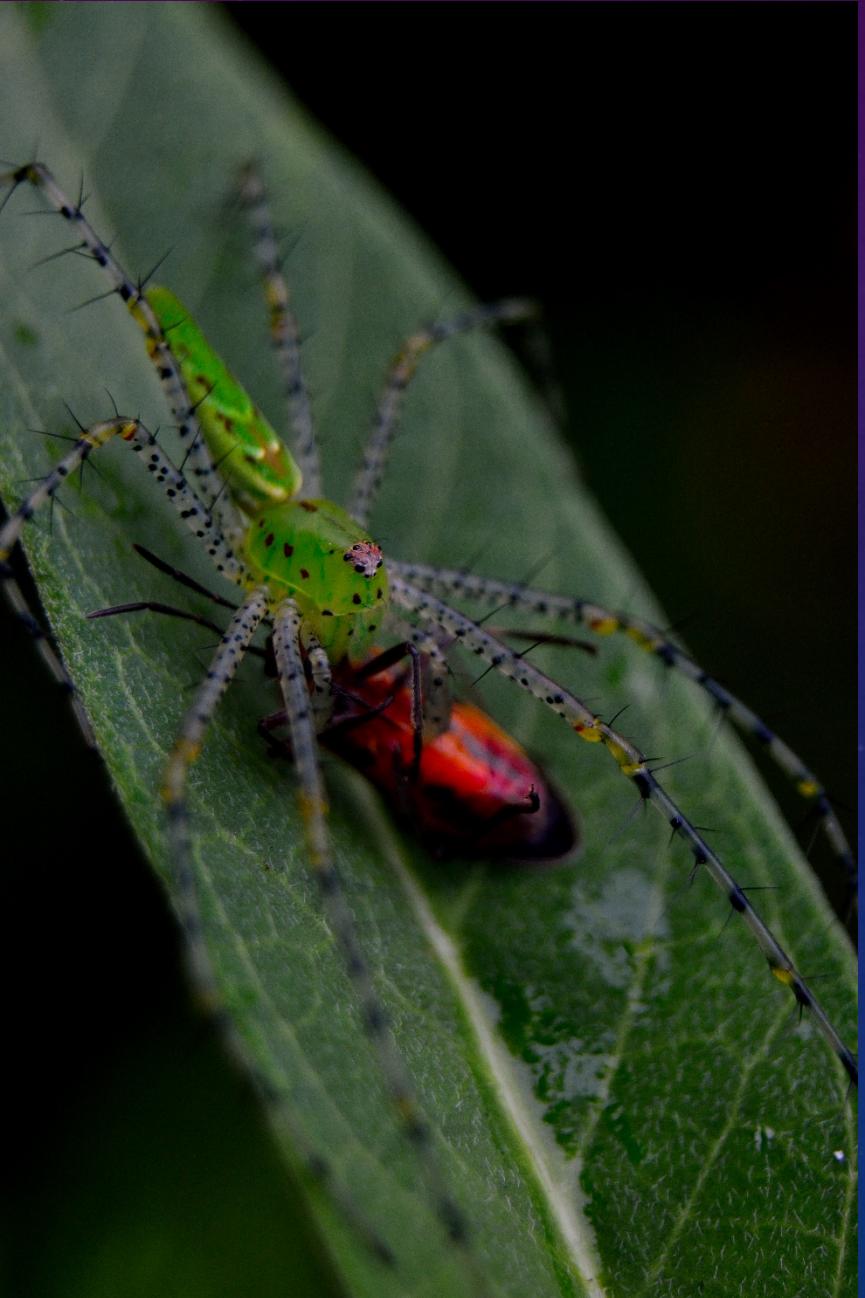
Marlin

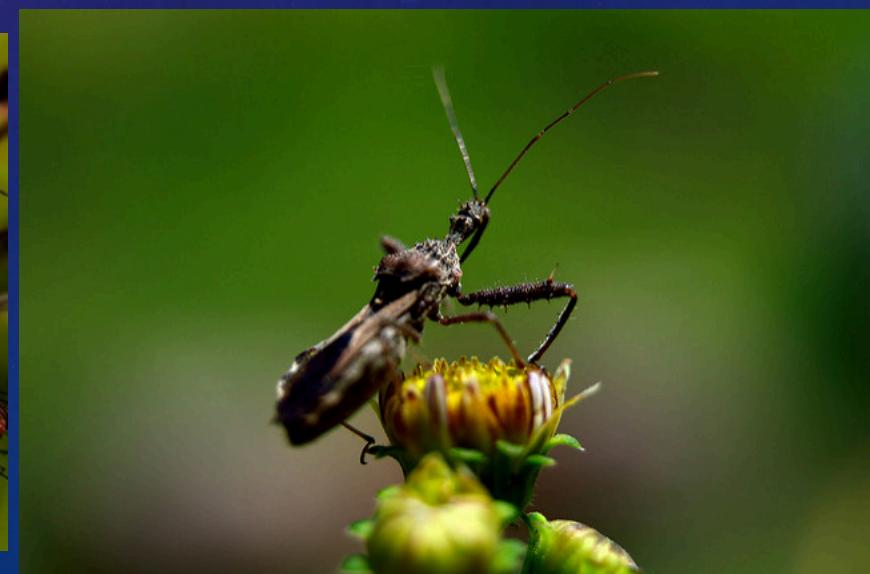
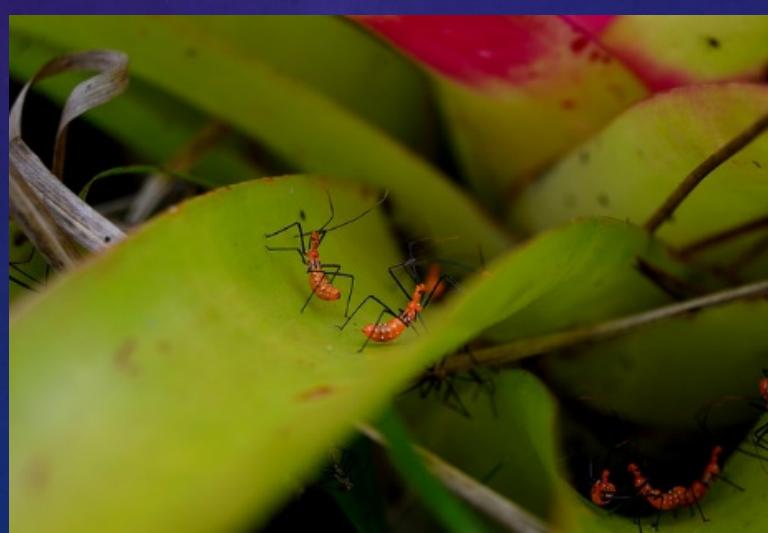
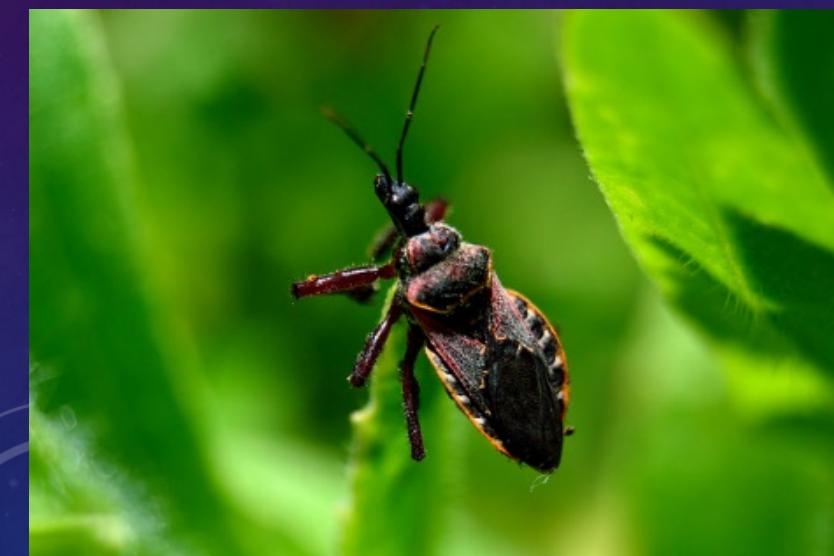
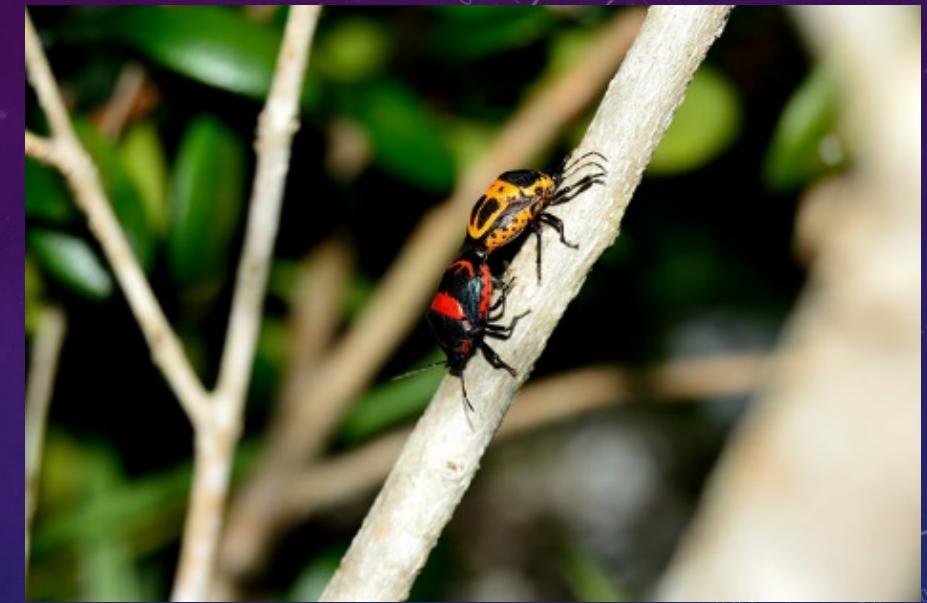














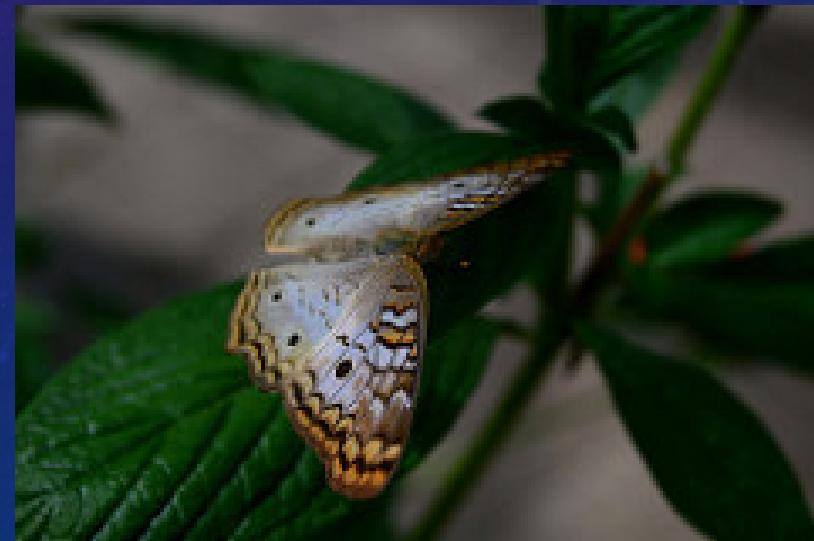
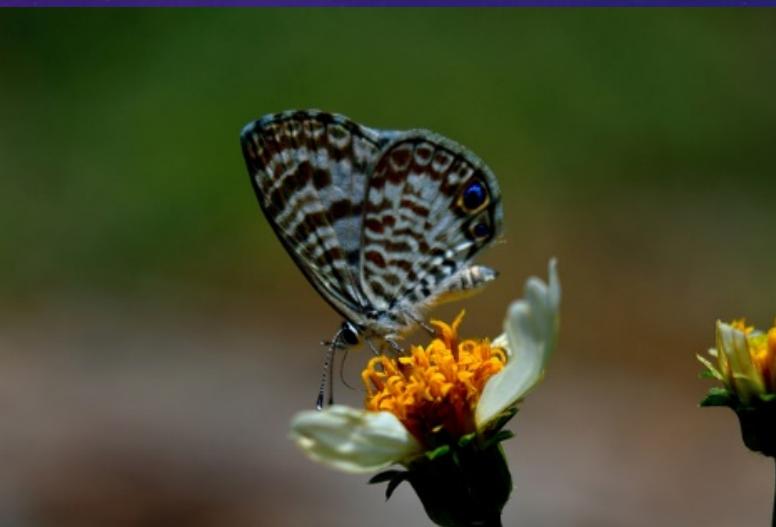


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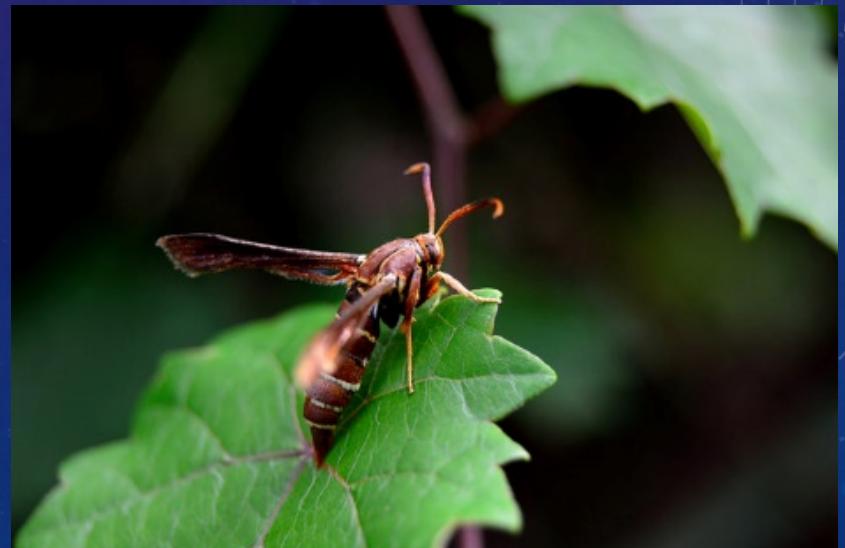




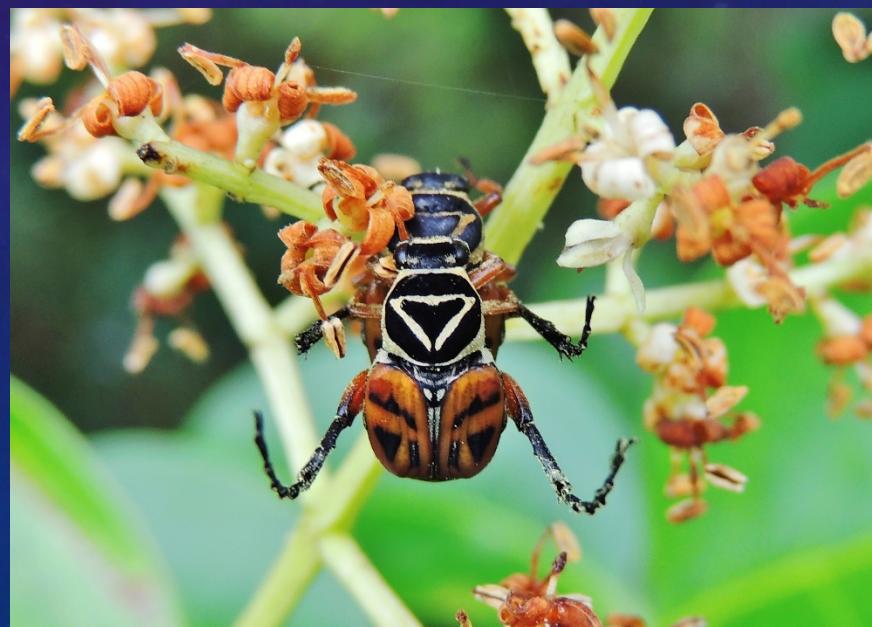




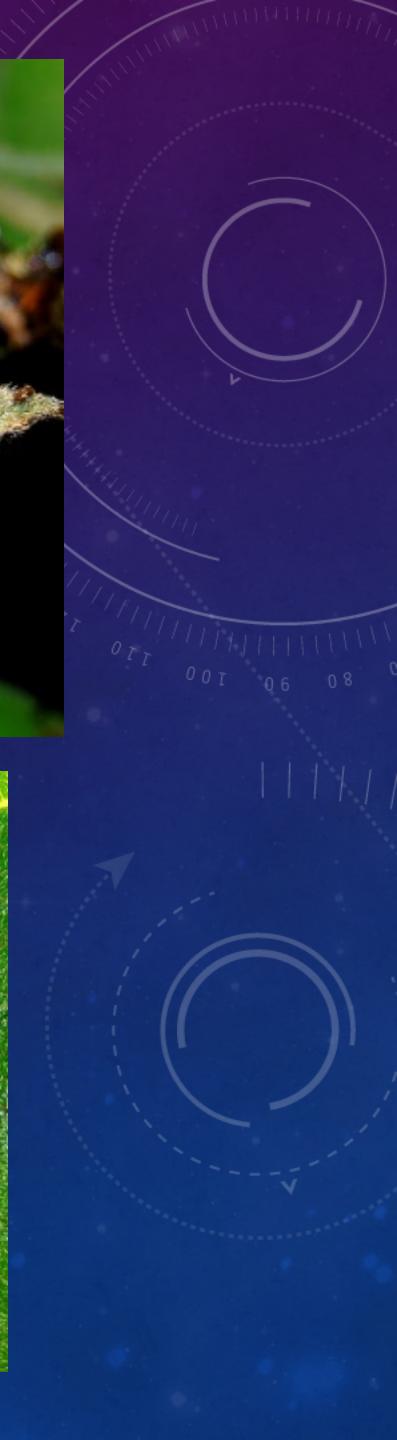


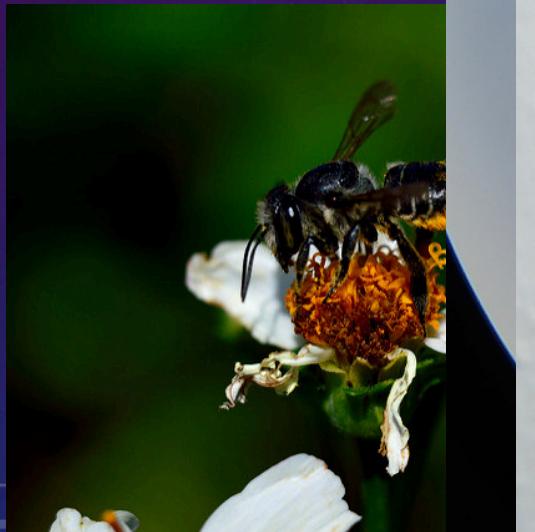
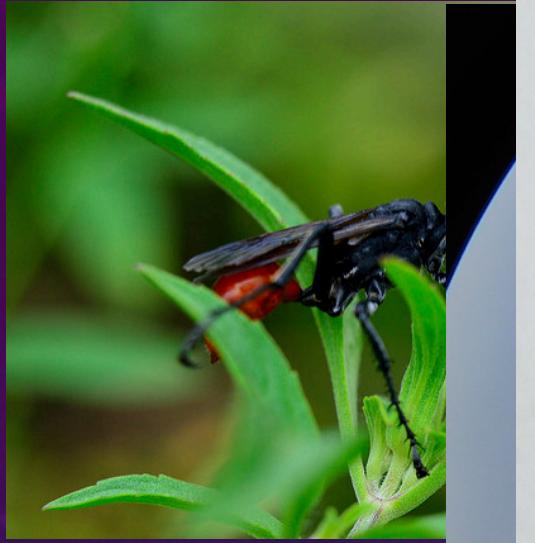








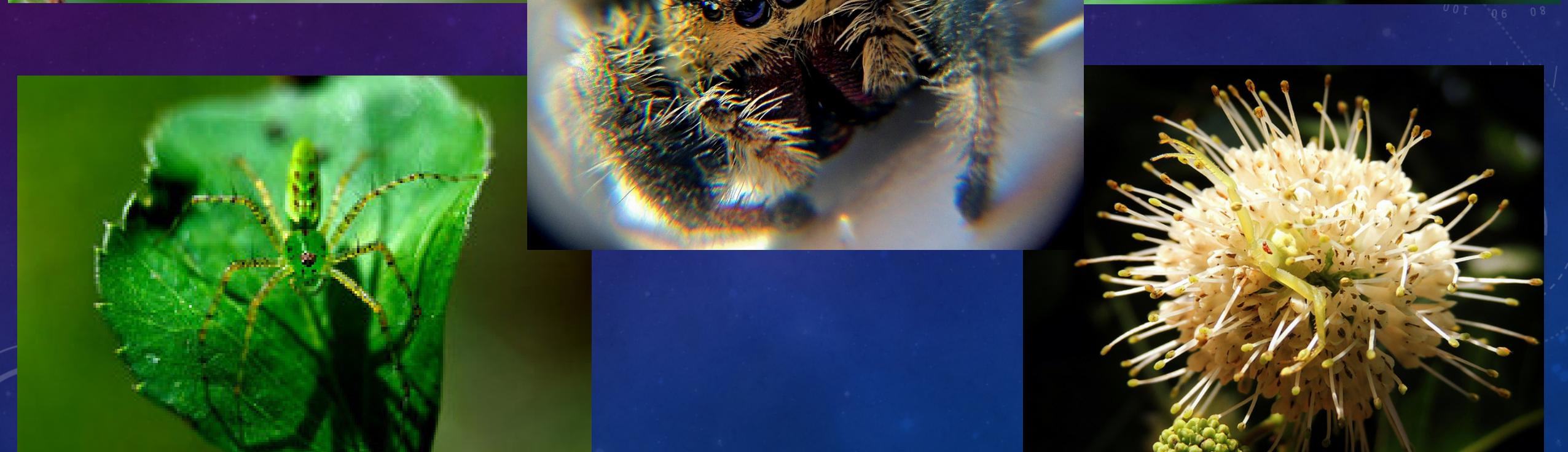




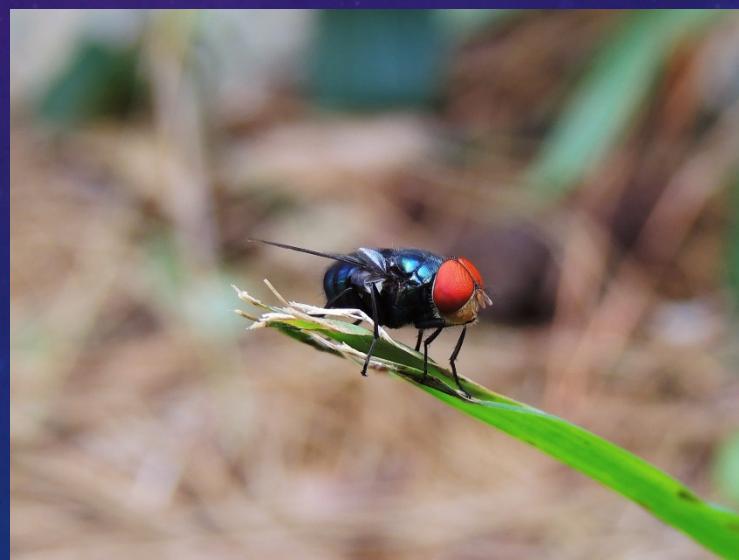
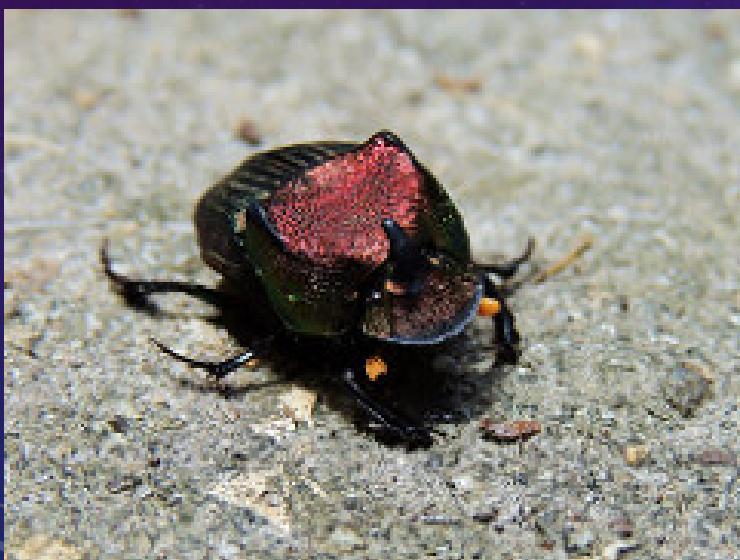
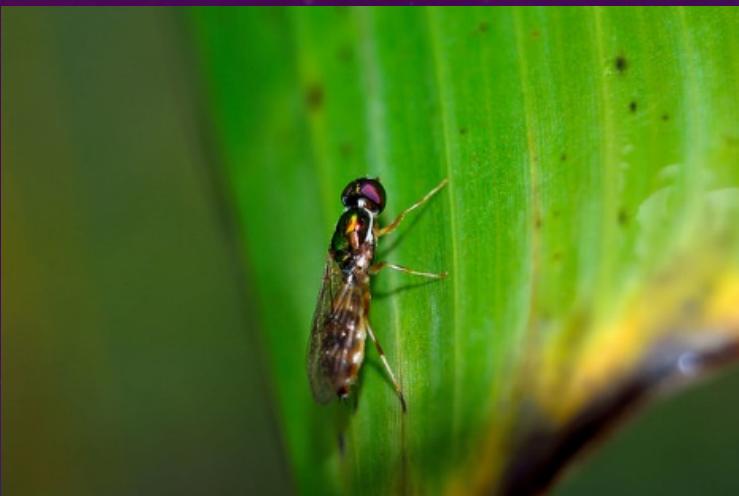
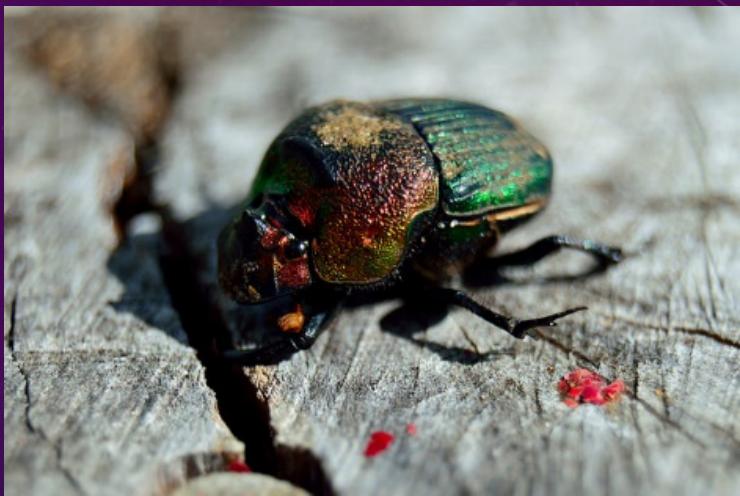














QUESTIONS?

