



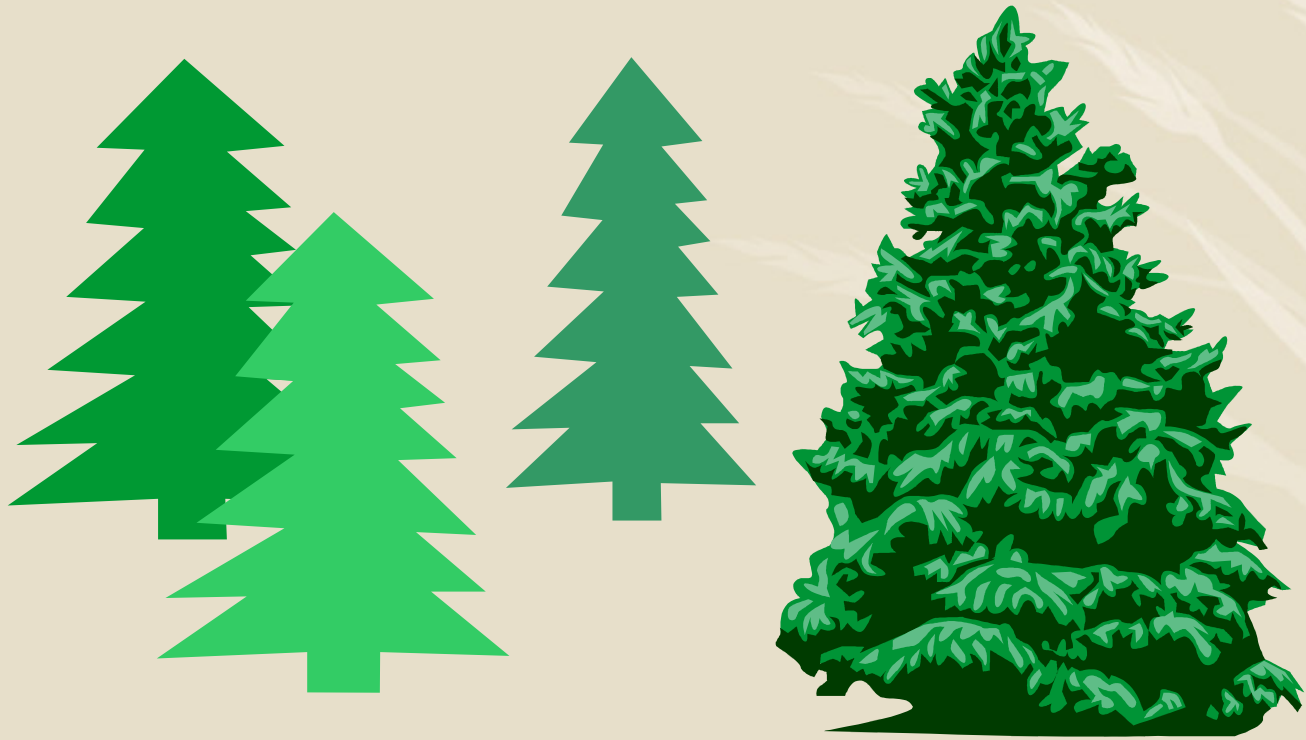
City of Fort Collins
Natural Areas Program



naturally yours

TAXONOMY

The science of arrangement.





What's his name?

What's that flower?



TAXONOMY

the science of arrangement

or

**the classification of
organisms.**

KINGDOMS:

MONERA = bacteria

PROTISTA = single celled organisms

FUNGI = includes molds

PLANT = algae, gymnosperms, angiosperms

ANIMAL = 32 phyla

PLANT KINGDOM

Division

Class

Order

Family

Genus

species



ANIMAL KINGDOM

Phylum

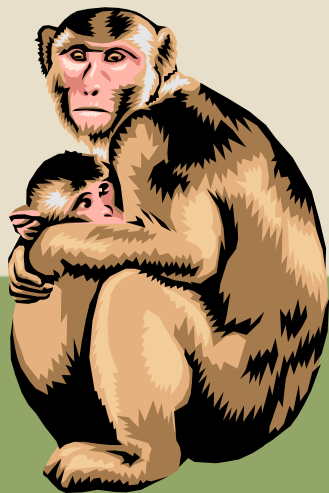
Class

Order

Family

Genus

species



Genus species

binomial nomenclature

Carolus Linnaeus, 1758

- **universal**
- **unique**

Kingdom: Animalia

PHYLA

- Porifera - sponges
- Platyhelminthes - flat worms
- Nematoda - round worms
- Annelida - segmented worms
- Mollusca - molluscs
- Arthropoda - jointed appendages, exoskeleton
- **Chordata** - notochord, dhnc, pharyngeal gill slits.

Kingdom: Animalia, Phylum: Chordata

CLASS

- Chondrichthyes – cartilaginous - sharks, skates, rays
- Osteichthytes - bony fish
- Amphibia - dual life
- Reptilia - first terrestrial animals
- Aves - arose from reptiles. First homeotherms.
- **Mammalia** - mammary glands, hair, live birth

Kingdom: Animalia, Phylum: Chordata, Class: Mammalia

ORDER

- Primates
- Chiroptera
- Insectivora
- Lagomorpha
- Rodentia
- Perissodactyla
- Artiodactyla
- **Carnivora**

Kingdom: Animalia, Phylum: Chordata, Class: Mammalia,
Order: Carnivora

FAMILY

- Felidae
- Ursidae
- Prcyonidae
- Mustelidae
- Hyaenidae
- **Canidae**

Kingdom: Animalia, Phylum: Chordata, Class: Mammalia,
Order: Carnivora, Family: Canidae

Genus

- **Vulpes**
- **Canis**

Kingdom: Animalia, Phylum: Chordata, Class: Mammalia,
Order: Carnivora, Family: Canidae, Genus: *Canidae*

species

- *Canis latrans* = coyote
- *Canis lupus* = wolf

Greek



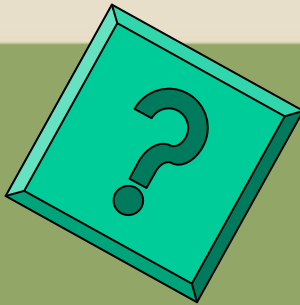
Athene culicaria

Vulpes vulpes



Purshia tridentata

Latin



Ahus tenuifolia

SCIENTIFIC NAMES ARE ESPECIALLY IMPORTANT IN THE PLANT KINGDOM

- One plant may have many common names
- The same name may be used for many different plants



Why bother with names?

- **Insert your answer here...**

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