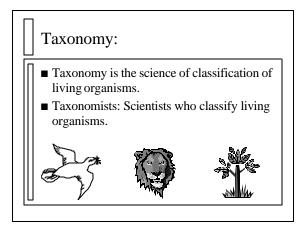
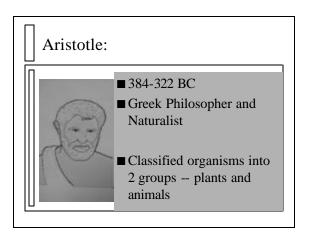
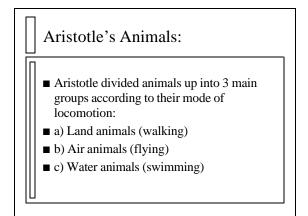
# The History of Classification

# Classification:

- The organization according to common characteristics
- The grouping of like organisms
- Shows relationships among organisms
- Used to help identify unknown organisms and to differentiate between known organisms.

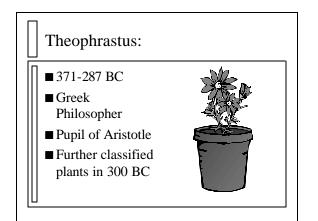






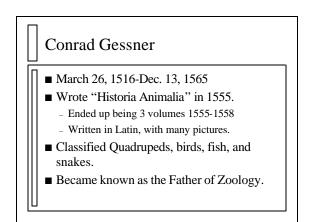
# Your turn:

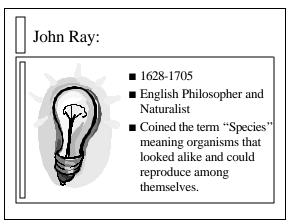
- Using Aristotle's 3-group system, name two animals that would fit into each category.
- Are there any flaws that you can detect with Aristotle's system?

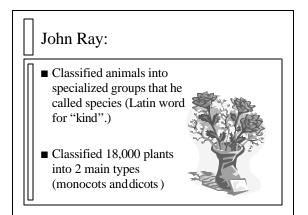


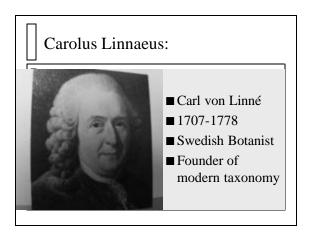
# Theophrastus' Classification:

- Small plants with soft stems he called <u>*herbs*</u>.
- Medium plants with woody stems he called *shrubs*.
- Large plants with woody stems he called *trees*.









#### Linnaeus' contributions:

- Classification according to physical characteristics. (1735)
- Binomial Nomenclature: System of naming organisms with a genus and species name. (Organisms with more than 1 common name would now have a single name in the scientific community.)
  - First appeared in use in 1753 and 1758 books by Linnaeus.

# Haeckel

- 1834-1919
- German Biologist
- "Tree of Life" in 1866 and redrew in 1894.
- 3 Kingdoms
- Plants, Animals, Protists

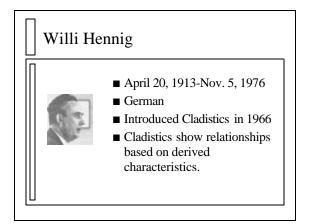


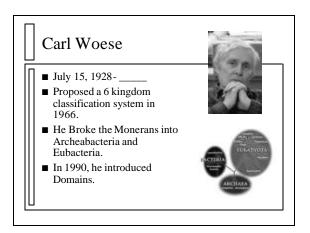
# Herbert Copeland

- 1902-1968
- American Biologist
- In 1938 proposed a 4 kingdom classification system.
- He separated the Prokaryotes into their own kingdom Monerans

# Robert Whittaker

- 1920-1980
- American ecologist
- Vegitarian
- Proposed a 5 kingdom classification system in 1959.
- He Moved the Fungi to their own kingdom.





# Today:

- We now have a organisms broken down into 3 Domains (Archaea, Bacteria, and Eukaryota), and 6 kingdoms (plantae, animalia, eubacteria, archaebacteria, protista, and fungi).
  - Kingdoms are broken up into smaller groups which break up into even smaller groups (phylum, class, order, family, genus, species).
  - We continue to use Linnaeus' binomial nomenclature system.