Three Domain Classification
Building on the five kingdom system

All organisms

Eukarya

Eukaryotes (have nuclei and other membrane-bound organelles)

Eubacteria

Prokaryotes (lack nuclei and other membrane-bound organelles)

"True" bacteria

Archae

- Prokaryotes (lack nuclei and other membrane-bound organelles)
- "Freaky" bacteria
- Most primitive
- Live in hot mineral springs, inside of rocks, deep ocean vents.
- "extremophiles"

Animalia

- Multicellular
- No cell walls-cells held together with collagen (or other protein)
- Heterotrophic

Examples: You, cockroaches, sponges

Plantae

- Multicellular
- Cell walls of cellulose
- Autotrophic

Examples: trees, mosses, grass

Fungi

- Multi- and unicellular
- Cell walls of chitin
- Heterotrophic

Examples: mushrooms, molds, yeasts

Protista

The taxonomists "junk drawer"

- Multi- and unicellular (and colonial) -the multicellulars lack specialization.
- Cell walls of a variety of materials
- Hetero- and/or autotrophic

Examples: ameba, euglena, algae