

Why Classify?

Yahoo!

Carl Linnaeus → similarities?
differences?

1.3 million species described

↳ 8-20? (80?)

1 million species animals

↳ 750,000 insects

↳ 4000ish mammals

↳ 800-1000 sp bats → 450?

Why be anthropocentric?

Classification System

- old: 5 Kingdom System

Volvox → Prokaryotae (Monera) → single celled, no membrane-bound organelles

→ Protocista (Protista)

Fungi

Plantae → (photosynthesize) cell walls
chloroplasts

Animalia → heterotrophs, no cell walls

- new: Domains

Bacteria Archaea Eukaryota



Levels of Classification

1000 000	Kingdom	Animalia	Kids
:	Phylum	Arthropoda	Play
:		↳ joint ↳ feet (legs)	Catch
:	Class	Insecta → 6 legs	Over
:	Order	Diptera (flies)	Former
✓	Family	Drosophilidae → fruit flies	Green's
(10)	Genus	<u>Drosophila</u>	Stable
(1)	Species	<u>melanogaster</u>	
		↓ ↓	
		coloured gut	

Drasophila melanogaster → "binomial nomenclature"

↑ capital
↑ lower case
underlined

Love	Long
Joy	John the
Peace	Peaceful
Patience	Pirate
Kindness	Keeps
Goodness	Guard
Faithfulness	For
Gentleness	Gentle
Self - Control	Sir Charles

Homo sapiens sapiens
 ↓ ↓ ↓
 man smart smart

Rattus rattus rattus

Rattus norvegicus

Masiakasaurus knopfleri

Draculoides bramstokerii

Abra cadabra

Sipuculus goltingii

Dichotomous Keys

- nodes + branches
- nodes represent a group of organisms that share a characteristic
- branches represent choices
 - 2 choices → mutually exclusive
 - specific → big/small, colour
 - no jargon
 - efficient.

