

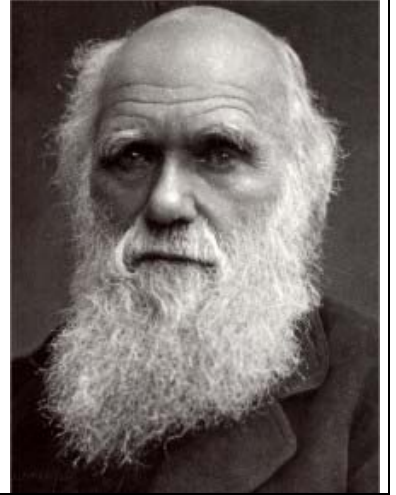
The Origin (and Extinction) of Species

Modern Evolution

THE big name in evolution = **CHARLES DARWIN**;

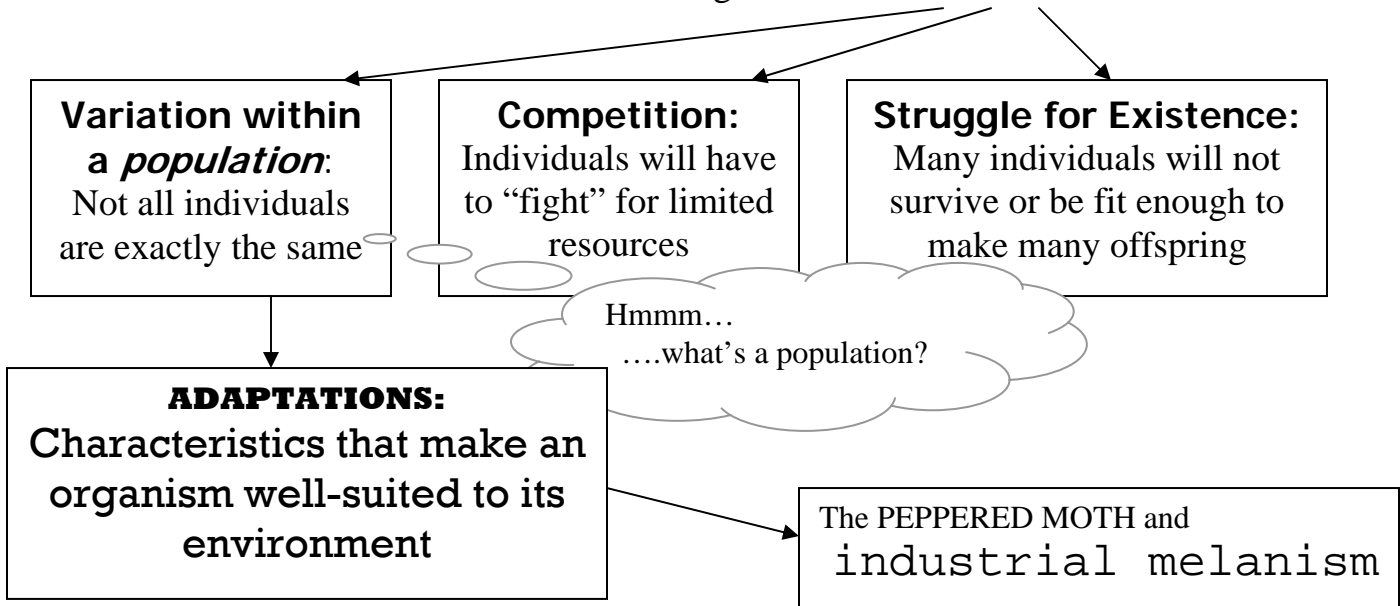


Mid-19th century English guy; went all over the world as a naturalist and observed different species; studied finches in the Galapagos Islands and noticed how each island had its own species of finch very similar to mainland finches.



DARWIN

is most noted for making the connection between



Natural selection= Those individuals with the more favorable genes (traits) will survive long enough to make healthy offspring with those same favorable genes.

How is this like selective breeding?

Observable Example: Antibiotic resistance

Speciation

New species can come about when a population is physically separated from other population of the same species called ***GEOGRAPHIC ISOLATION***. If the two environments are different, different genes will be beneficial and, over time, natural selection will select for different traits and the different populations will start to be more and more different.

Eventually the changes may make the two populations so different they can no longer successfully mate.....

.....***REPRODUCTIVE ISOLATION***

What's that definition of a species again?

