

# Human Adaptation

# Adaptation

- a change or the process of change by which an organism or species becomes better suited to its environment.
- means by which organisms cope with environmental changes and stresses
- the processes by which organisms or groups of organisms maintain homeostasis in and among themselves in the face of both short-term environmental fluctuations and long-term changes in the composition and structure of their environments.

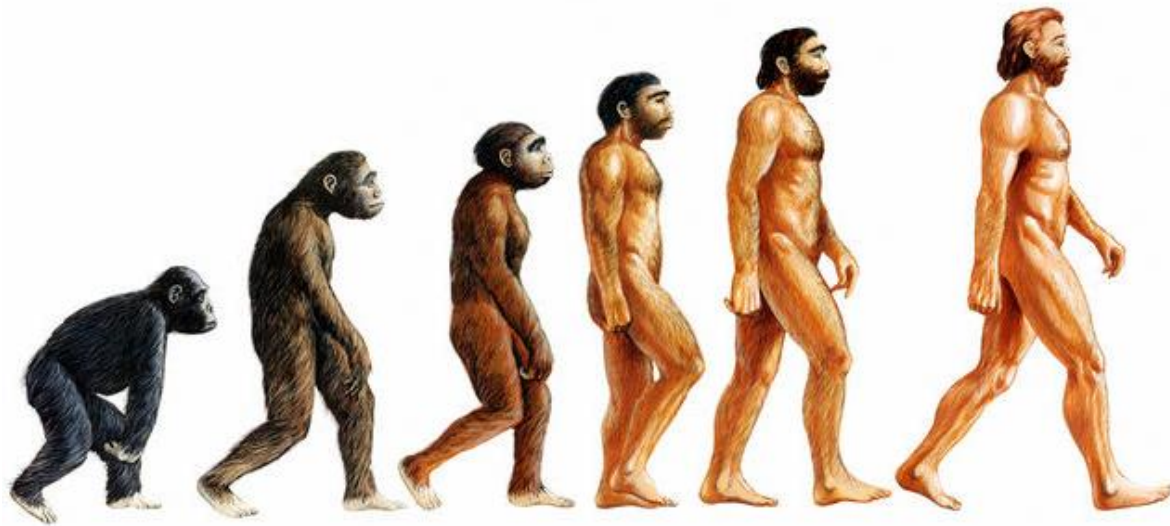
# Stress

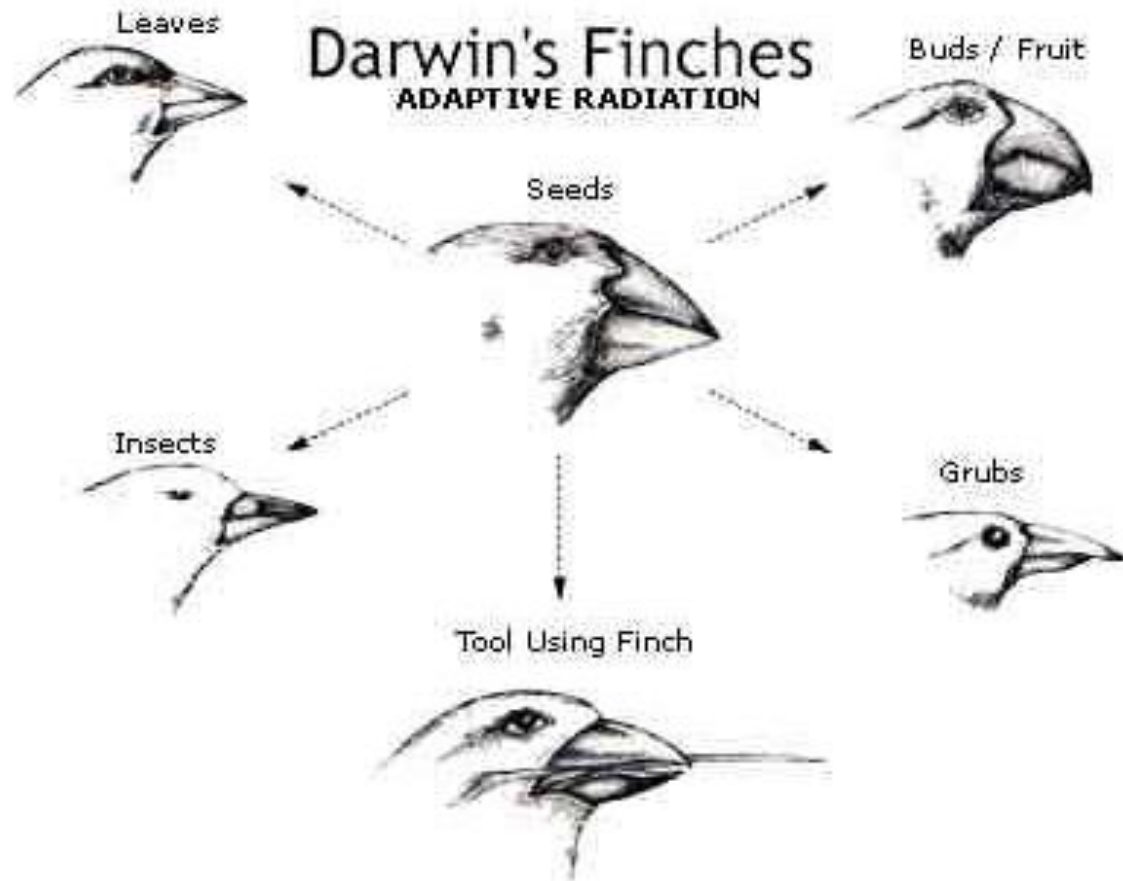
- Any factor which interferes with the normal limits of operation of an organism

# Homeostasis

- The maintenance of normal limits of body functioning

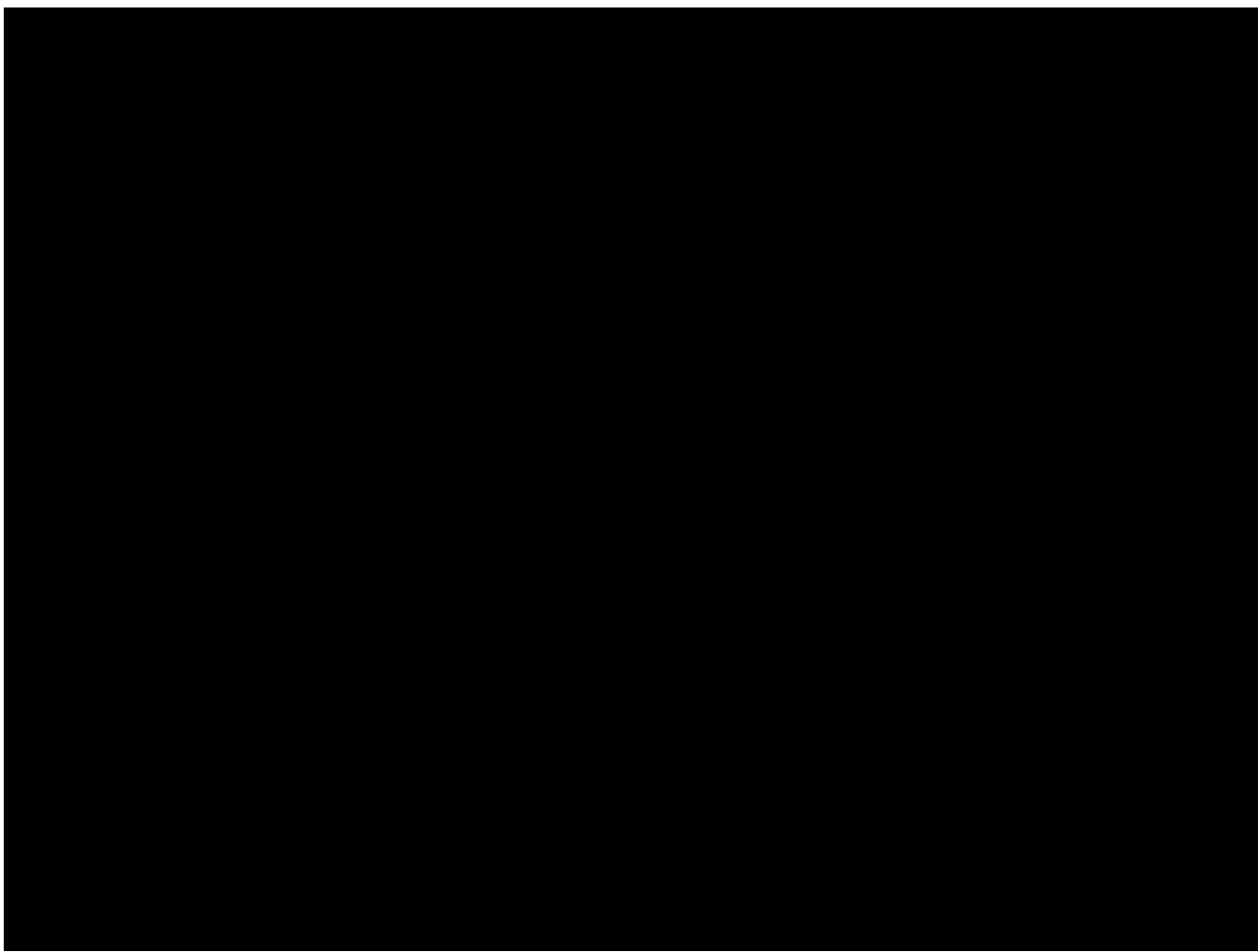
# Darwin's Theory of Natural Selection



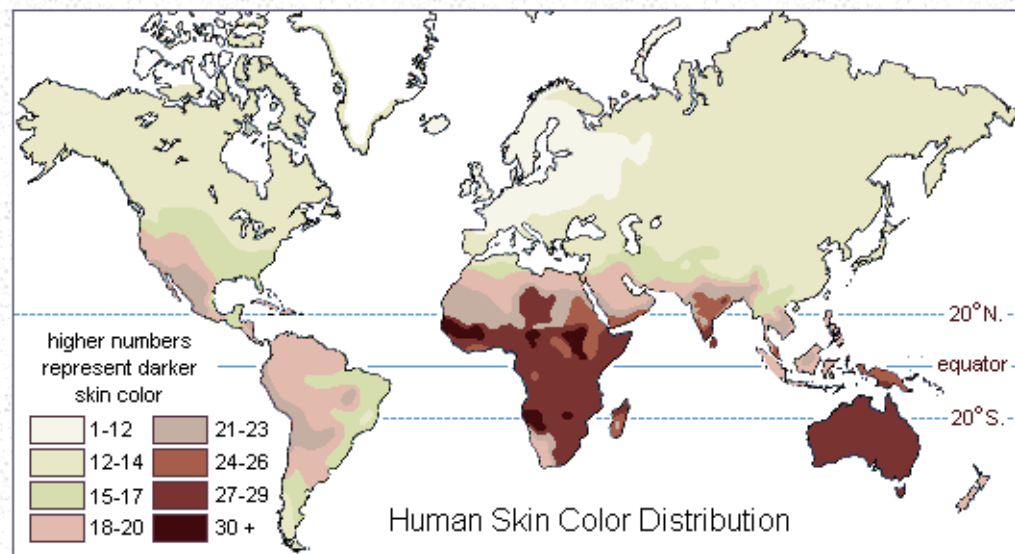


# Theory

- The states that evolutionary change comes through the production of variation in each generation and differential survival of individuals with different combinations of these variable characters. Individuals with characteristics which increase their probability of survival will have more opportunities to reproduce and their offspring will also benefit from the heritable, advantageous character. So over time these variants will spread through the population.



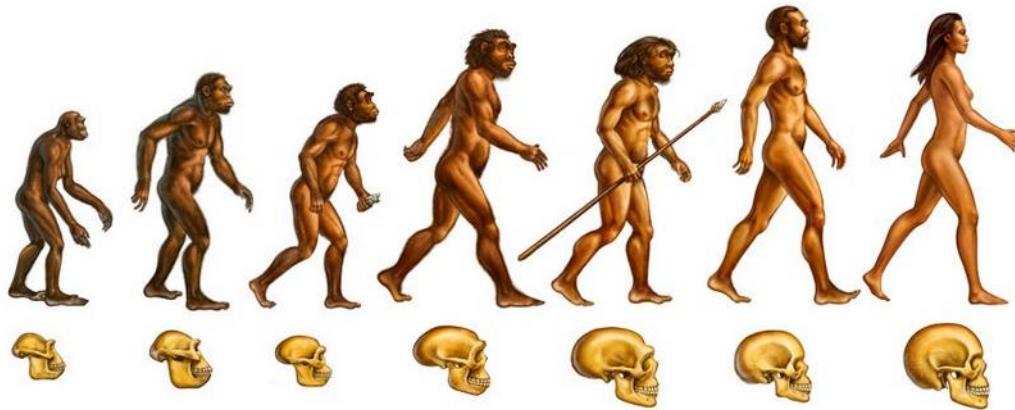
# Skin Color



(Data for native populations collected by R. Biasutti prior to 1940.)



# Body Form



# Temperature





# Bottomline

- We evolve as a response to our environment.
- We respond to our environment.
- Our environment affects how we behave.