

Day 1 –

EVOLUTION:

Everything

Changes

We're all just Pokémon after all



Objectives

- ▶ **State HOW and WHY “evolution” occurs**
- ▶ **Examine evidence and tools of it**
- ▶ **Understand how “evolution” applies to more than just life**
- ▶ ***Terms:***
 - ▶ **Charles Darwin**
 - ▶ **Evolution**
 - ▶ **Natural Selection**
 - ▶ **Fossils**
 - ▶ **Extinct**
 - ▶ **Mutation**
 - ▶ **Trend**

Remind Me...

- ▶ **What is Anthropology?**
- ▶ **What type of “science” is it?**
- ▶ **How have societies changed over time? (what are some examples)**
- ▶ *Do PEOPLE change too?*



But First...

- ▶ Have you ever seen a movie with humans and dinosaurs living together?
 - ▶ *No, not like Lost World, but in the same TIME ancient time period...*
- ▶ *What's wrong with this?*
- ▶ *HOW do we know?*
- ▶ *When did humans “begin” and how have we changed?*
- ▶ *NOTE: The following is a “Theory” and like ALL theories, may one day change, and you are welcome to have your own!*



Cornerstones

You Can't Darwin Them All

▶ Charles Darwin

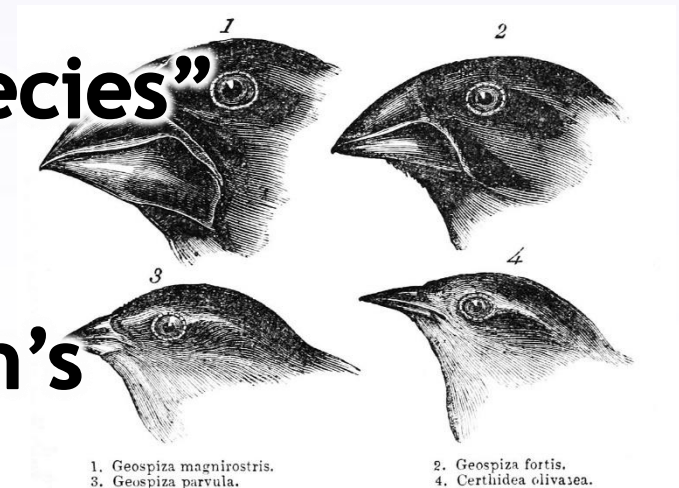
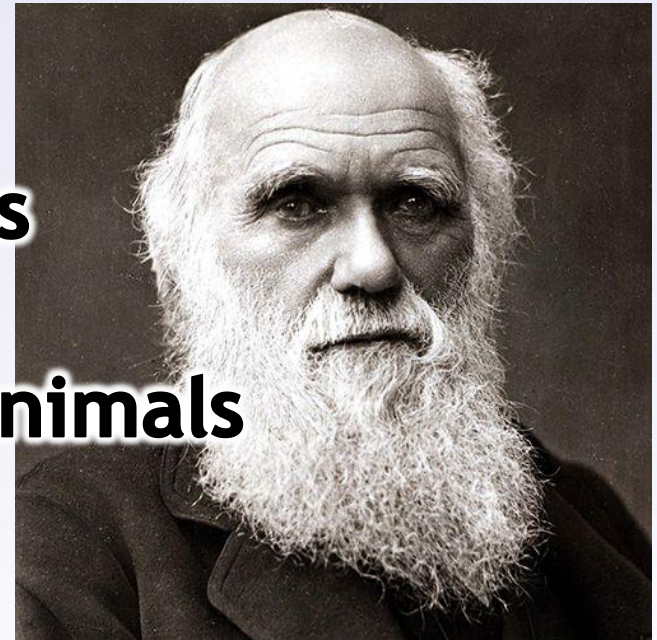
▶ While living on Galápagos Islands noticed different species and changes in animals

▶ Responsible for the “Theory of Evolution*”

▶ Published “Origin of Species”

▶ *Evolution

▶ A change in a population's traits over time



Is It Natural?

- ▶ *One of Darwin's greatest contributions was the idea of Natural Selection*
 - ▶ Sometimes called "Survival of the Fittest"
 - ▶ Some individuals adapt better to environment than others
 - ▶ MORE LIKELY TO SURVIVE / THRIVE
- ▶ *Think of which animals developed wings, venom, spikes, camouflage, or the spicy McChicken...*
- ▶ *Are there traits in humans that have helped US survive better?*



**WHY ARE WE STOPPING TEENS
FROM EATING TIDE PODS...**



**...WHEN THIS IS CLEARLY
NATURAL SELECTION AT WORK?**

NATURAL SELECTION



The Twelve A-Fossils



- ▶ *But, what if species DON'T adapt?*
- ▶ **Extinct**
 - ▶ **When** a species dies out entirely
 - ▶ *Passenger pigeon, the dodo bird, and of course those giant lizard-like things...*
 - ▶ *That's right, Godzilla!*
- ▶ **Fossil**
 - ▶ Preserved remains or traces of dead organisms





Found a fossil in my backyard.



I found

fossils

Is This The X-Men?

► *But, what about adaptations that AREN'T helpful, or don't spread?*

► *Like color-blindness, extra fingers, or being a ginger 😊*

► **Darwin also recognized
Mutations**

► **Scientifically an error in DNA**

► **But for Anthropologists this is also an adaptive change that is NOT carried on, or helpful... sorry Wolverine**





What's Currently Trending?

- ▶ *But are BIOLOGICAL changes the only ways a species (like humans) change over time?*
 - ▶ *Cats meow like a human baby's cry, crows give "gifts" to providers and protectors, and ducks have routes knowing where and when bread will be...*
- ▶ Evolution is not JUST biological, but can also involve trends
 - ▶ A direction in which something is changing or developing
 - ▶ *Like language, music, clothing, movies, social media, etc.*

SQUIRTLE

:L8

HP: 



CHARMANDER

:L10

HP: 
9 / 30



CHARMANDER
used EMBER!



TRENDS

through



TIME



And so...

- ▶ *While Anthropologists study humans, their “subjects” have drastically changed over time*
- ▶ *These changes are biological, cultural, social, and often change how we look, act, and feel... and help us to survive and thrive*
- ▶ *Who knows what changes still await... and what will be “trending” tomorrow...*

music-The Story of My Life, by One Direction

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