

Background to Neo-Darwinian Evolution

Microevolution vs. Macroevolution and Animal Kinds



What We Will Learn about “Animal Kinds” in This Lesson

- A) Fixity of Animal Kinds Disproves neo-Darwinian Evolution
- B) Animals Can Vary/Change Within Their own Kind (Microevolution), But Not Outside Their own Kind (Macroevolution).
- C) Similarities in Created Kinds Reflects an Intelligent Designer

Introduction

What Our Children Are Facing

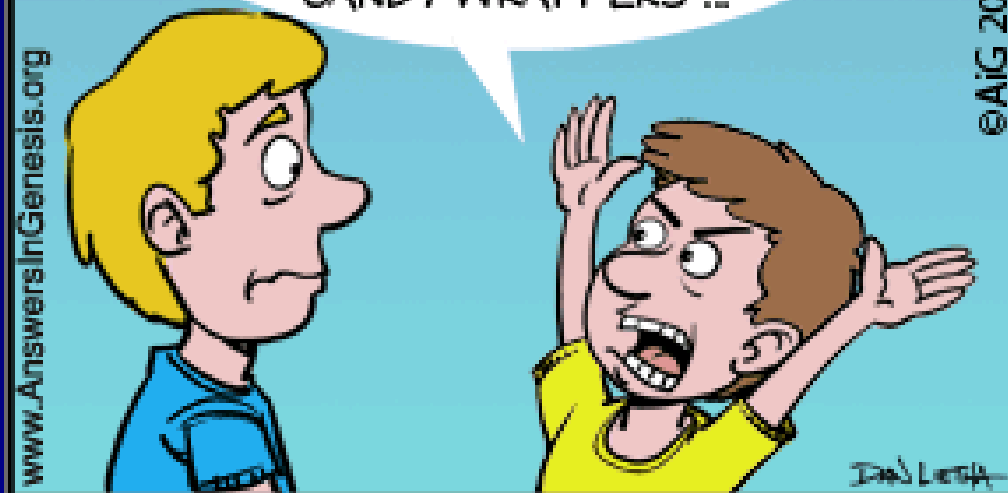


AFTER EDEN

by Dan Lietha

230

WHAT DO YOU MEAN EVOLUTION
ISN'T REAL? I SEE IT EVERYWHERE—
IN TV COMMERCIALS, VIDEO GAMES,
COMIC BOOKS, ANIMATED CARTOONS, MOVIES,
MUSIC VIDEOS, CEREAL BOXES, TV SIT COMS,
MAGAZINE ADS, BUMPER STICKERS,
T-SHIRTS, RESTAURANT TRAY LINERS,
ROLLER COASTERS,
CANDY WRAPPERS ...



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Evolution evangelists

Logical Fallacy: “Appeal to the Majority”



Logical Fallacy: “*Argumentum ad populum*” AKA. . . .

Bandwagon



“Officer, I didn’t do anything wrong. Everyone around me was going the same speed.”

Logical Fallacy: “Appeal to the Majority”

That’s all very interesting, but do you happen to have any **EXPERIMENTAL RESULTS** to support your philosophy?



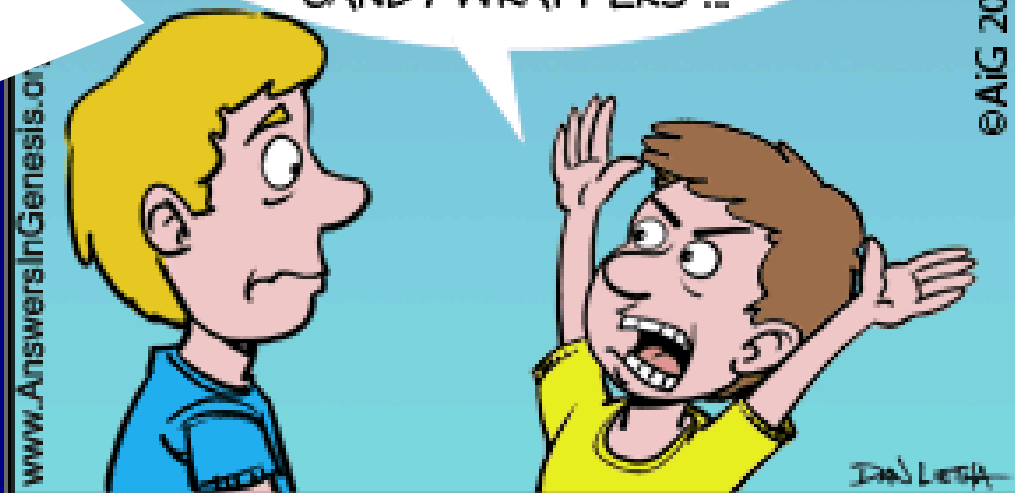
And while we're on the subject, in the 1930's, Nazi Germany propaganda was also everywhere: on radio commercials, comic books, movies, music, magazine ads, clothing, and business windows. Would you have accepted the Holocaust too?

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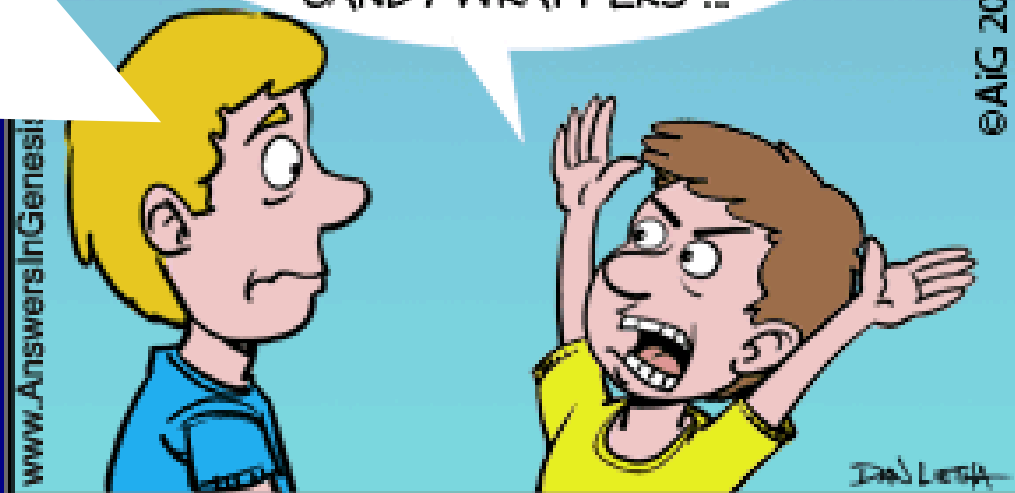
If you're truly interested in finding the truth, why don't we sit down and compare views as to why I believe we are the result of an intelligent designer and not the accidental byproduct of evolution from a cloud of hydrogen gas and pond scum.

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WHAT DO YOU MEAN EVOLUTION ISN'T REAL? I SEE IT EVERYWHERE—IN TV COMMERCIALS, VIDEO GAMES, COMIC BOOKS, ANIMATED CARTOONS, MOVIES, MUSIC VIDEOS, CEREAL BOXES, TV SIT COMS, MAGAZINE ADS, BUMPER STICKERS, T-SHIRTS, RESTAURANT TRAY LINERS, ROLLER COASTERS, CANDY WRAPPERS ...



Evolution evangelists

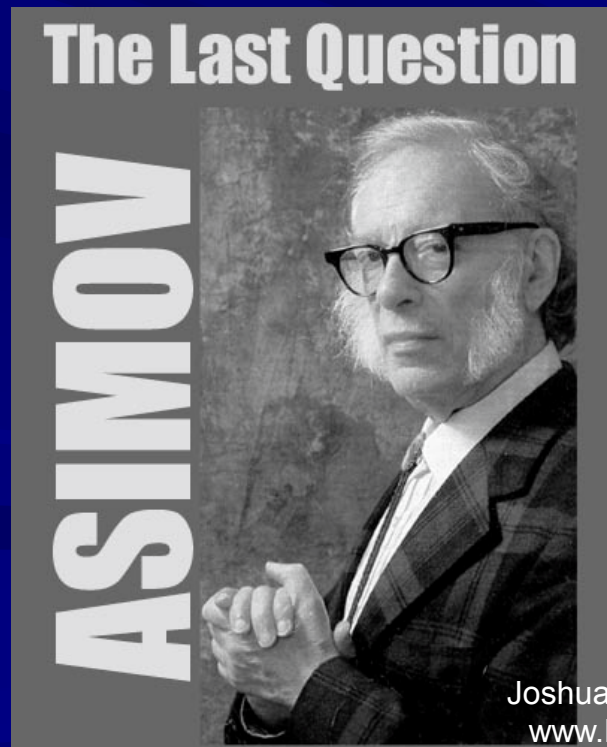
The Supposed Evolution of Man is 100% Accidental



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The Supposed Evolution of Man is 100% Accidental

- “Intelligence is an accident of evolution, and not necessarily an advantage.” - Dr. Isaac Asimov (Physics professor, wrote > 500 books)
- “In many ways we are a biological accident, the product of countless propitious circumstances.”
- Dr. Richard Leakey Co-author with American science writer Roger Amos Lewin *Origins: What New Discoveries Reveal about the Emergence of our Species and its Possible Future* (1977), p. 256.



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The Supposed Evolution of Man is 100% Accidental

- “In other words, physicists are now claiming that the hundreds of billions of stars and galaxies, including the earth and humanity, are not conscious creations but an accident. There is no Creator, because there was no creation.” – Dr. Victor Stenger, (Particle Physicist) “Was the Universe Created?” Free Inquiry (Summer 1987), pp. 26-30. p. 26
- “Many paleontologists, myself included, now view *Homo sapiens* as a tiny and unpredictable twig on a richly ramifying tree of life—a happy accident of the last geological moment, unlikely ever to appear again if we could regrow the tree from seed.”
- Dr. Stephen Jay Gould, “Modified Grandeur,” Natural History, vol. 102 (March 1993), pp. 14-20. p 20



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The Supposed Evolution of Man is 100% Accidental

- “Gould himself summed up his first two Tanner lectures thus: ‘Our evolution is not progressively ordained, moving toward us. It is not for the best. It does not lead to perfect structure. There are important elements of accidental chance regulating the major structure of the biosphere. Evolution is not smooth and gradual.’”
– Dr. Jeremy Cherfas, “The Difficulties of Darwinism,” *New Scientist*, vol. 102 (May 17, 1984), pp. 28-30. p. 29
- “Man was not programmed in biological evolution, because evolution has no program. In one sense, man, *Drosophila*, and all other forms of life are evolutionary accidents.”
– Dr. Theodosius Dobzhansky, (Evolutionary Geneticist) “Evolution at Work,” *Science* (May 9, 1958), pp. 1091-1098. p. 1091

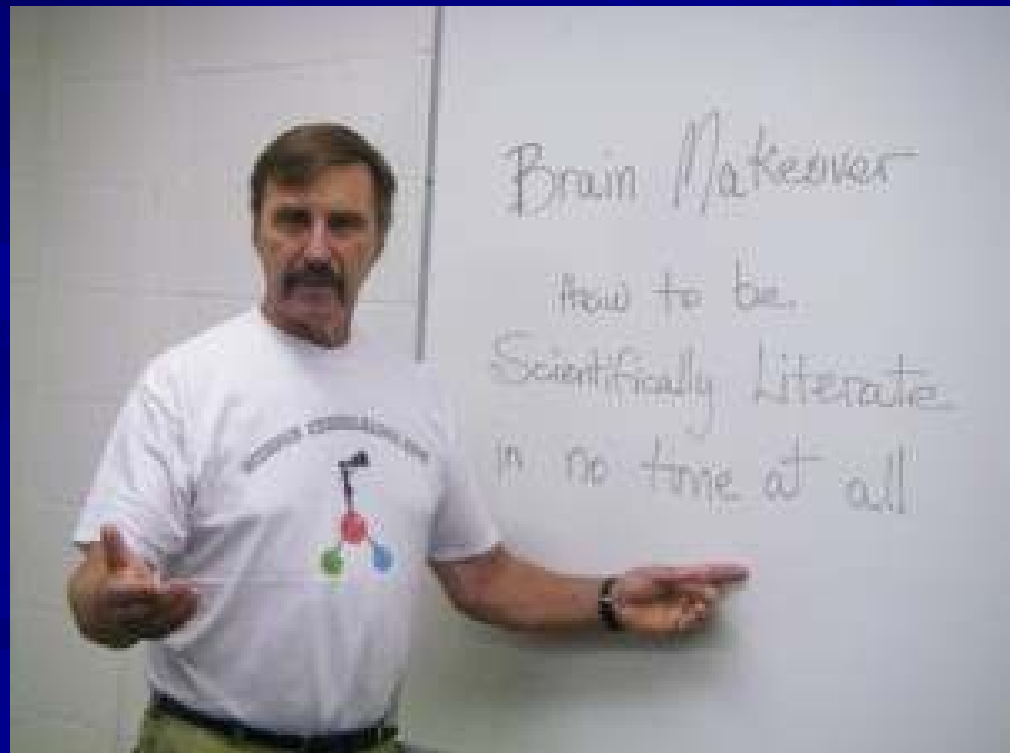


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The Supposed Evolution of Man is 100% Accidental

- “In this picture, the universe came into existence as a fluctuation in the quantum-mechanical vacuum. Such a hypothesis leads to a view of creation in which the entire universe is an accident. In Tyron’s words, ‘Our universe is simply one of those things which happen from time to time.’” -Dr. James Trefil, (Physicist, George Mason Univ.) “The Accidental Universe,” Science Digest, vol. 92 (June 1984), pp. 53-55, 100-101.



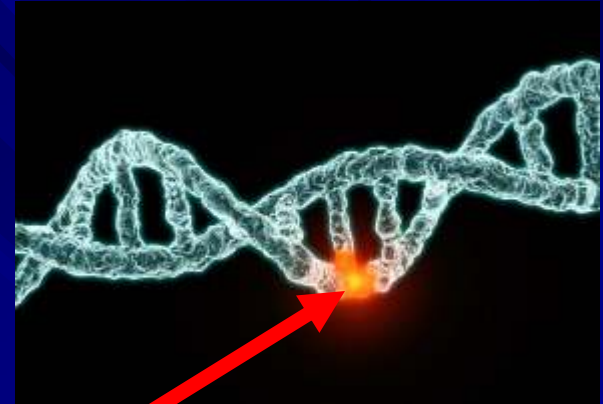
What Is “*Intelligent Design*” or “*Creation Science*?”

"We have no basis on the record to conclude that creation science need be anything other than a collection of scientific data supporting the theory that life abruptly appeared on the earth."

- United States Supreme Court Justices Antonin Scalia and William Rehnquist, *Edwards vs. Aguillard, Dissent* (1987).



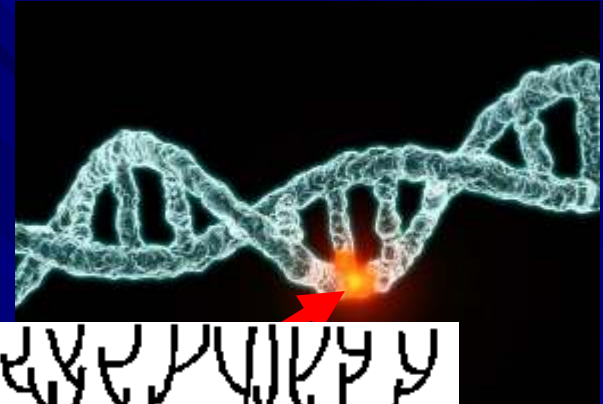
What is Evolution? (AKA, Macroevolution, Naturalistic Evolution, Neo- Darwinism, Darwinism, or The General Theory of Evolution)



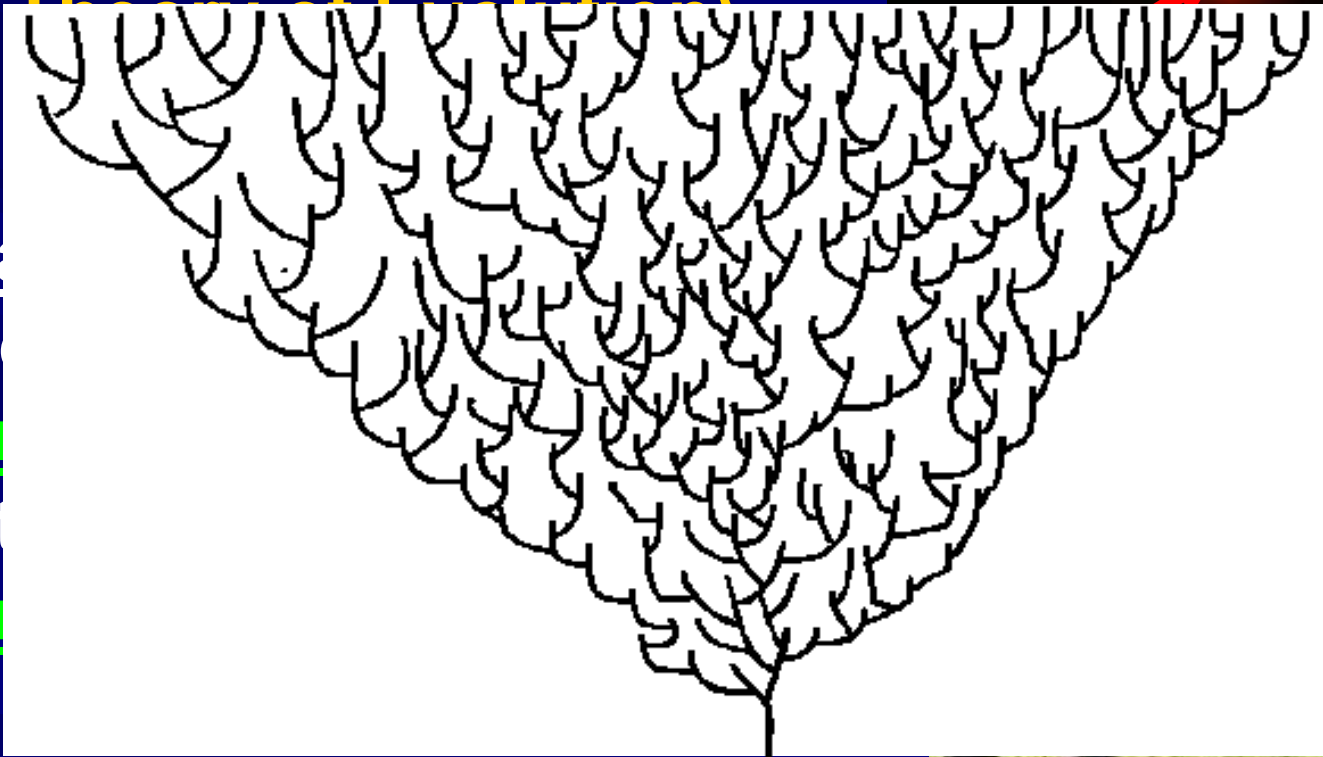
The philosophy that all life on earth gradually evolved from a single-celled organism by means of (1) random mutations (purely accidental) and (2) natural selection (i.e., survival of the fittest). AKA, “particles to people” or “molecules to man.”



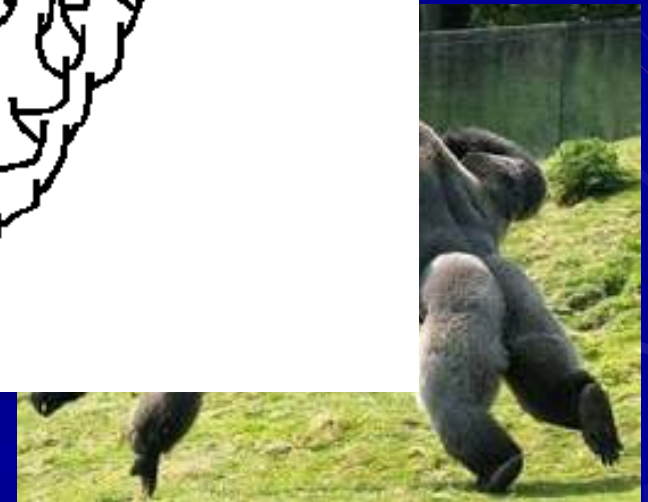
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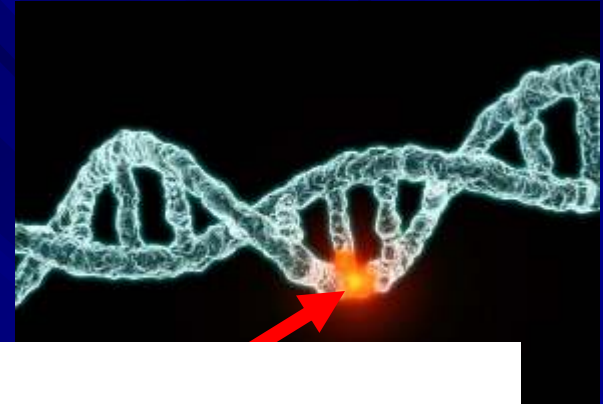
The philosophy of evolution is based on the idea that life on earth grew from a single-celled organism through a process of (1) random accidents and (2) selection of the fittest).



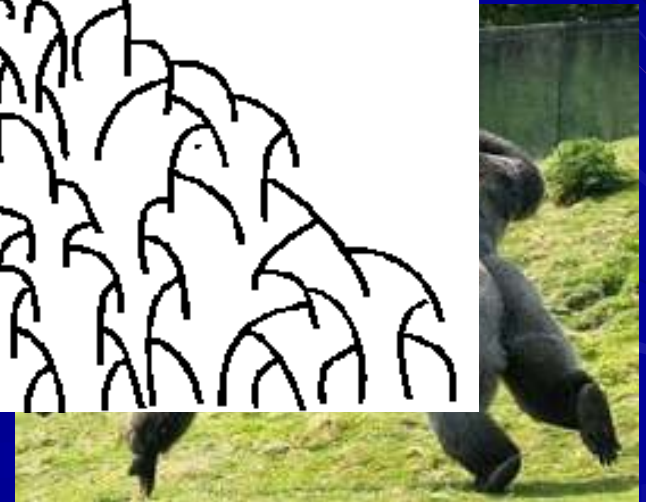
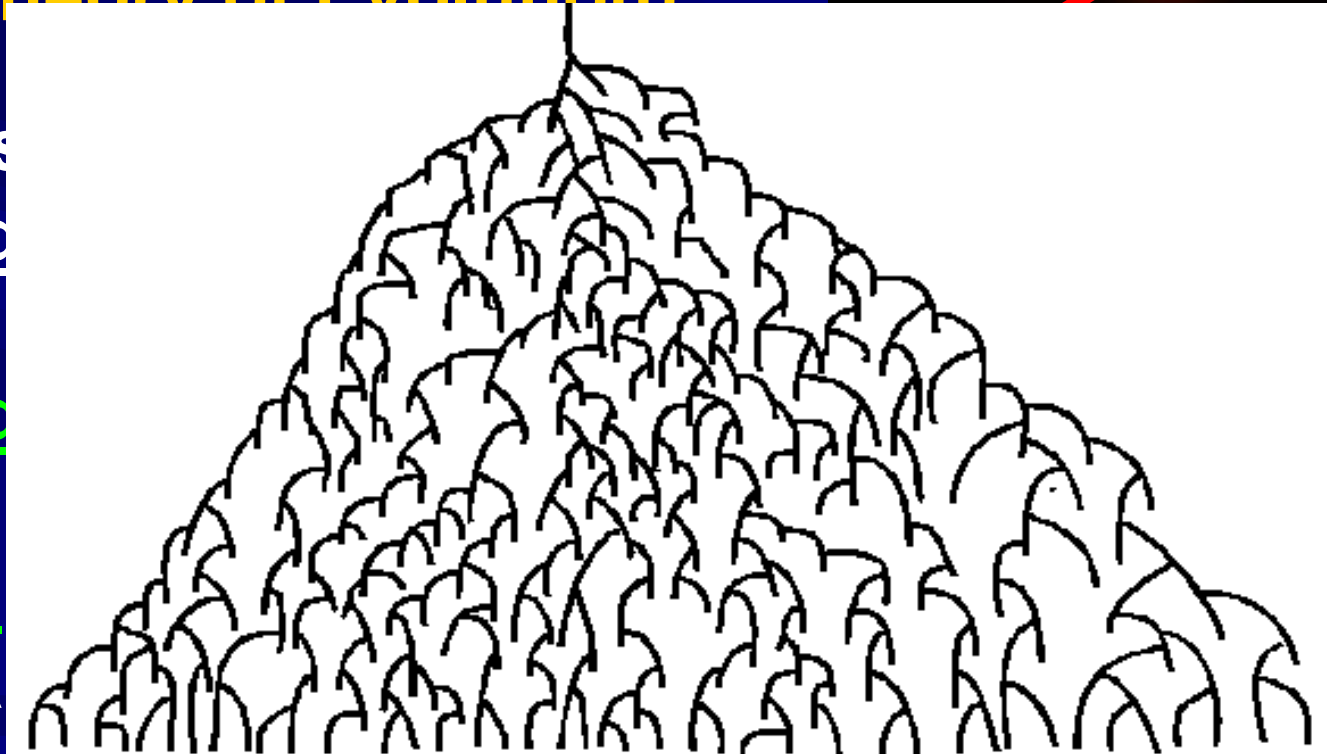
“from molecules to man.”



What is Evolution? (AKA, Macroevolution, Naturalistic Evolution, Neo- Darwinism, Darwinism, or The General Theory of Evolution)



The philosophy of evolution is that life on earth gradually evolved from a single-cell organism of (1) random mutations and (2) accidental selection of the fittest). A "theory" of "evolution" from "molecules to man."



The Philosophy of Macroevolution is Not New!

It has been a strong philosophical conviction of faith for thousands of years before man ever tried to make it scientific.

1. “*a priori*” Philosophy, (The conclusion precedes the experiments) versus

2. “*a posteriori*” Science, (The conclusion is drawn only AFTER the experiments)



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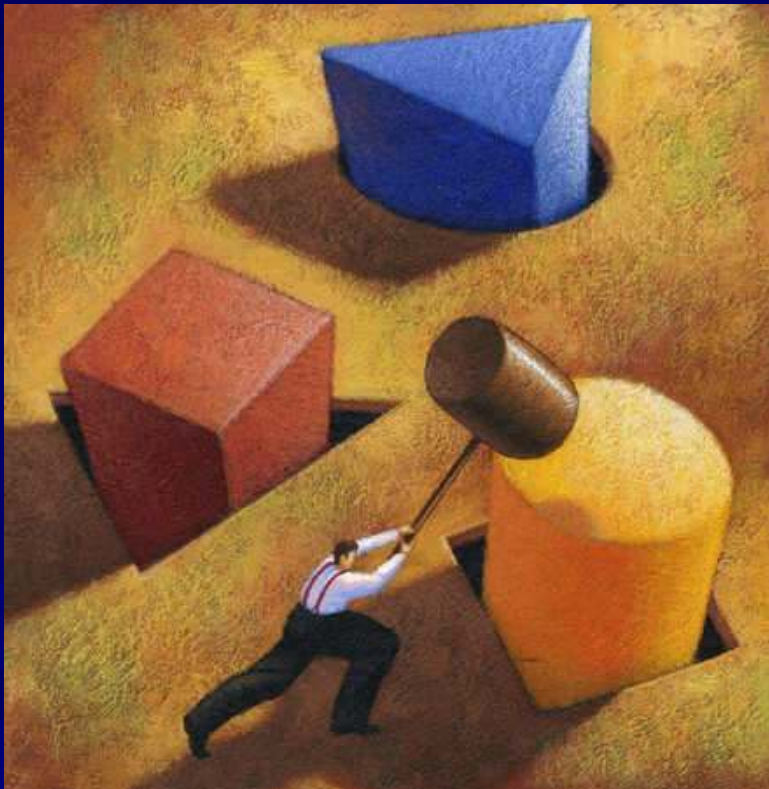


Science

It stands
science
on its
head.



In Truth, Macroevolution is an *a priori* Philosophy, Which Employs *post hoc* (i.e., “after the fact”) Investigations in Order to “FIT” A Predetermined Mold



It stands
science
on its
head.

Science



How Do We Know Macroevolution Was Accepted Before It Was Scientifically Tested



It's So Easy a Child Can Understand It



*“... from **the** earliest stages of Greek thought man has been eager to discover **some natural cause of evolution, and to abandon the idea of supernatural intervention in the order of nature**”*

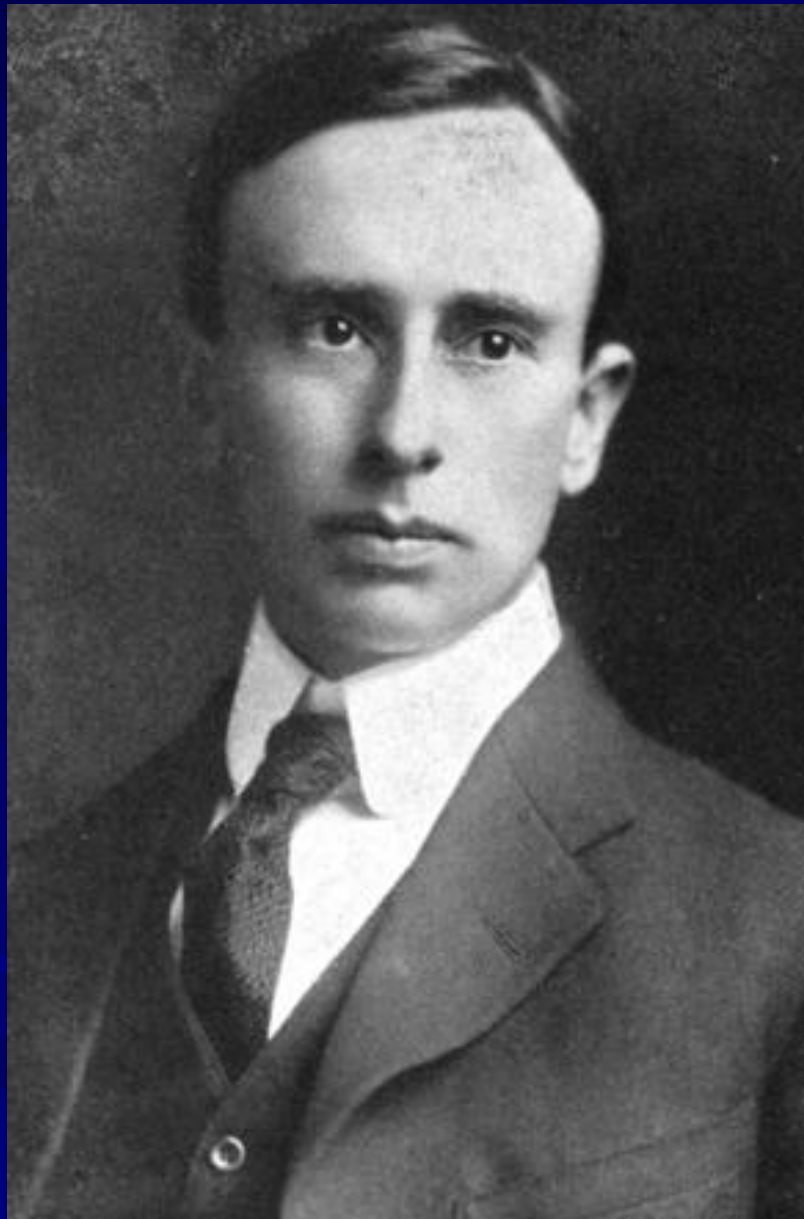
- Dr. H.F. Osborn, The Origin and Evolution of Life, 1918, p. ix. (Harvard Paleontologist, President of American Museum of Natural History)



“... evolution itself, a theory universally accepted not because it can be proved by logically coherent evidence to be true but because the only alternative, special creation, is clearly incredible.”

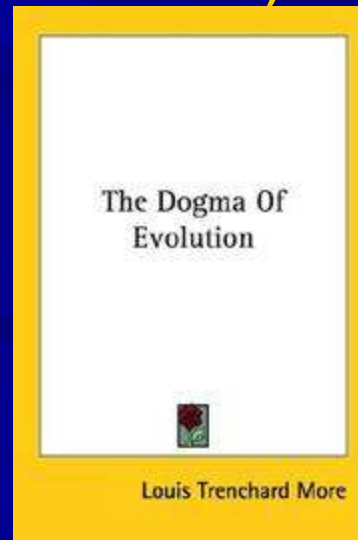
**- D. M. S., Watson,
“Adaptation,” *Nature*.
124:231-234, 1929
(Professor of Zoology
and Comparative
Anatomy, Fellow of
the Royal Society,
University College,
London)**





“Our faith in the idea of evolution depends on our reluctance to accept the antagonistic doctrine of special creation”

-Dr. Louis Trenchard More, *The Dogma of Evolution*, 1925 (Dean of the College of Sciences, Dean of Graduate School, University of Cincinnati.)

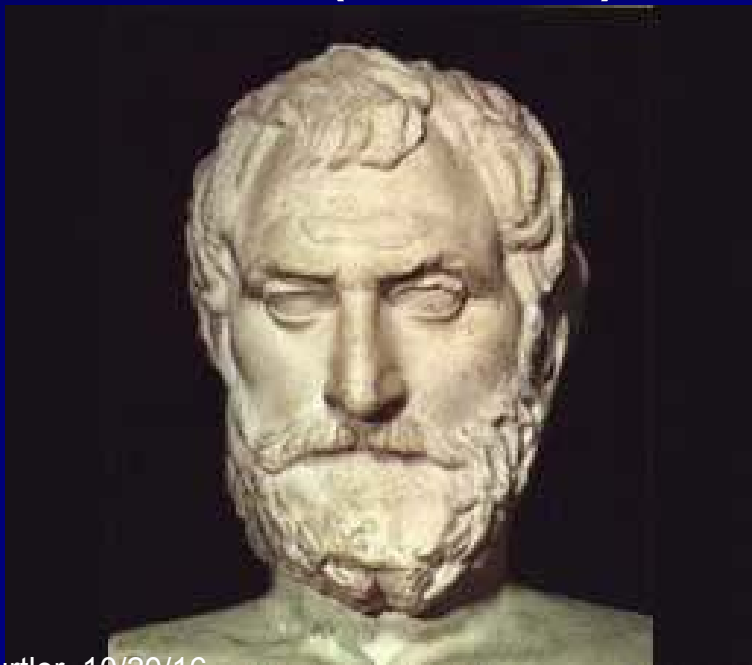


Man Has Been Trying to Explain God Away for over 3,000 Years

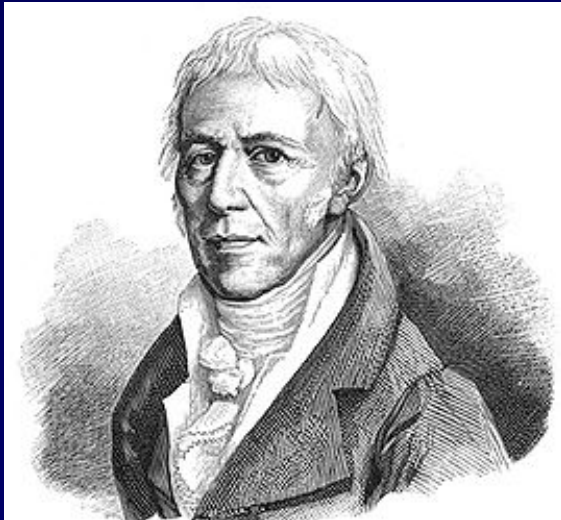
1) Psalms 14:1; 53:1 - *"The fool has said in his heart, 'there is no God.'"*

2) Evolution accepted by Ancient Greeks:

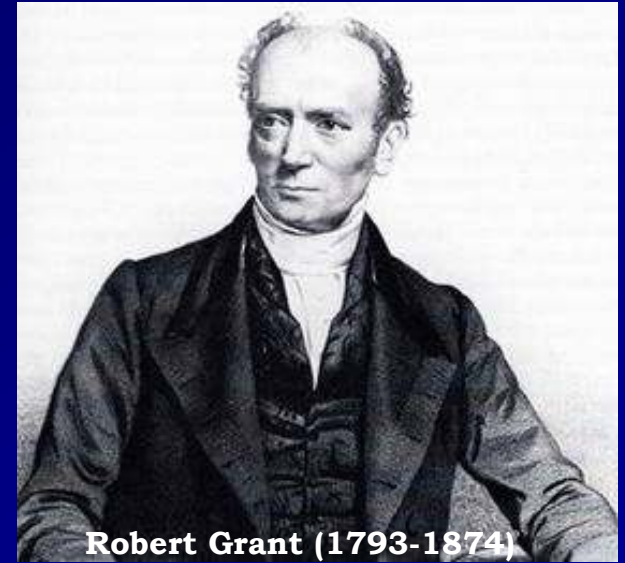
Thales (588 B.C.) Anaximander (570 B.C.);
Empedocles (455 B.C.); Democritus (420 B.C.);
Strato (288 B.C.)



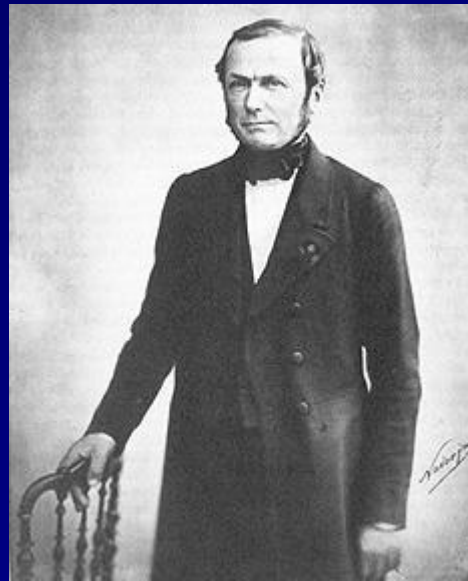
Evolution Proposed Prior to Charles Darwin



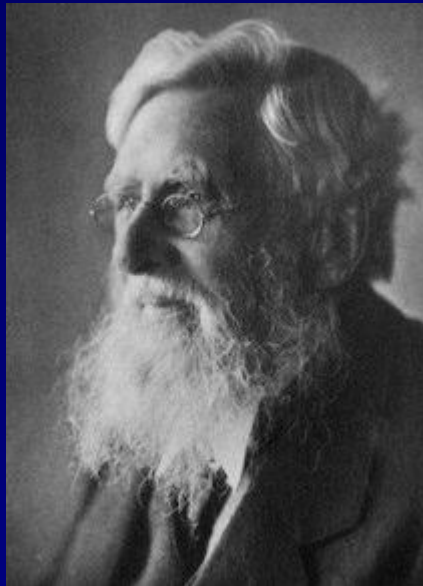
Jean-Baptiste Lamarck (1744-1829)



Robert Grant (1793-1874)



Geoffroy Saint-Hilaire (1772-1844)

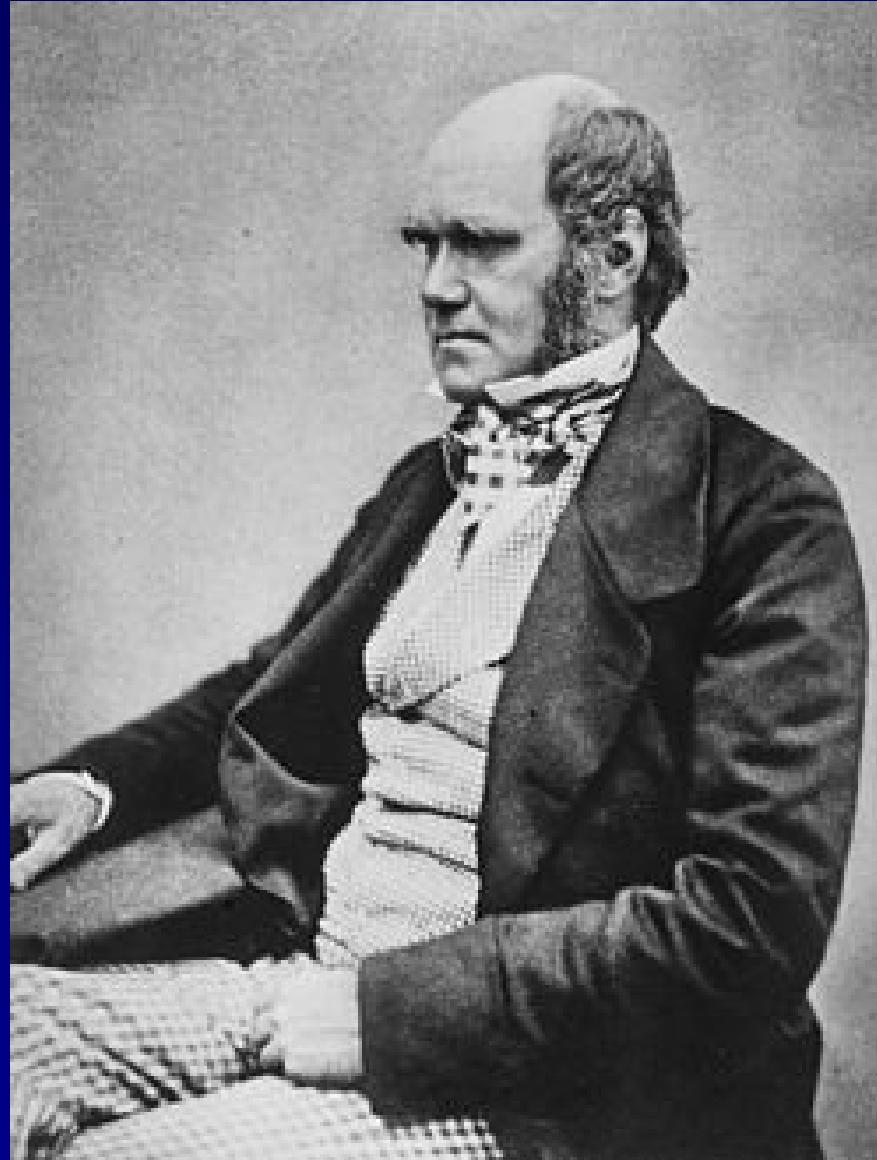


Alfred Russel Wallace (1823-1913)



Erasmus Darwin (1731-1802)

Enter Charles Darwin



Charles Darwin used a logical fallacy called “**The Fallacy of Equivocation**” (AKA, “**Bait and Switch**”) to say, if animals can vary within their kind then they can evolve into different kinds (i.e., across phylogentic boundaries).

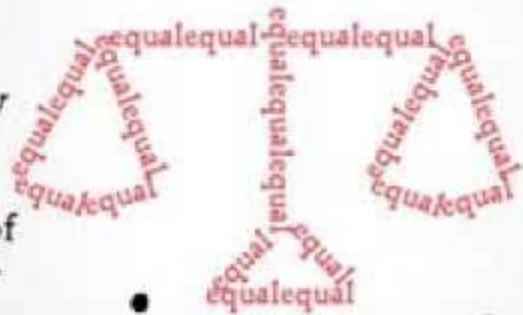
Enter Charles Darwin



Charles Darwin used a logical fallacy called **"The Fallacy of Equivocation"** (AKA, **"Bait and Switch"**) to say, if animals can vary within their kind then they can evolve into different kinds (i.e., across phylogentic boundaries).

A fallacy depending on
the double meaning of
a word.

Mistakenly
equating
two
different
meanings of
one word.



An
argument
that uses
one word
to mean
two
different
things.

Equivocation

Cambridge.org

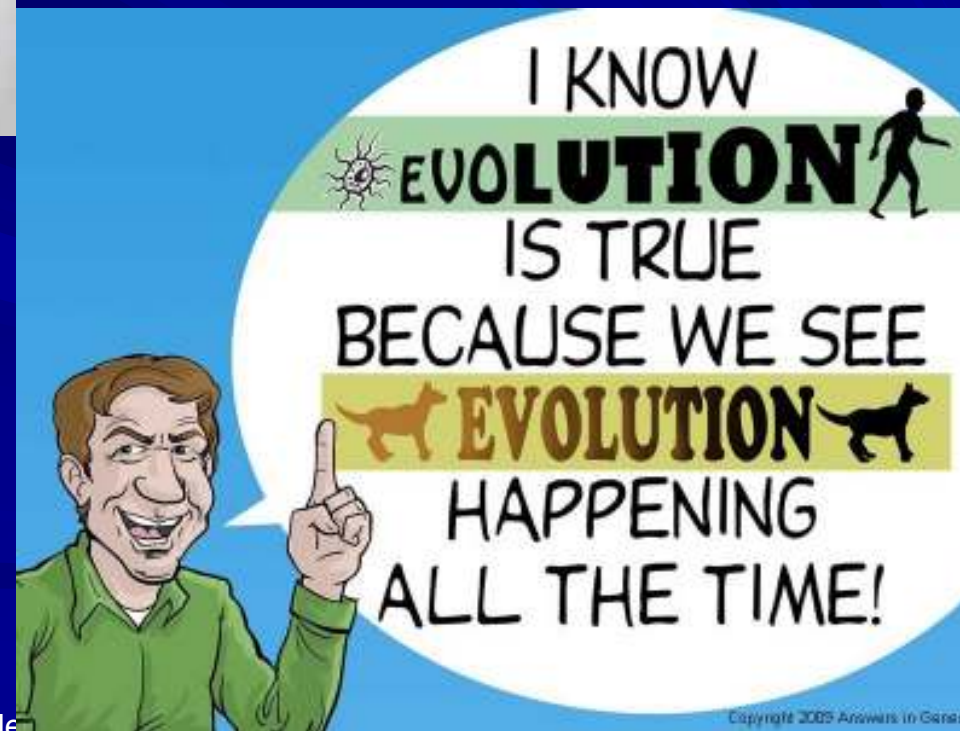


**NOBODY
IS PERFECT
I'M NOBODY
SO I'M
PERFECT**

The Logical Fallacy of Ambiguity

Logical Fallacy of Equivocation

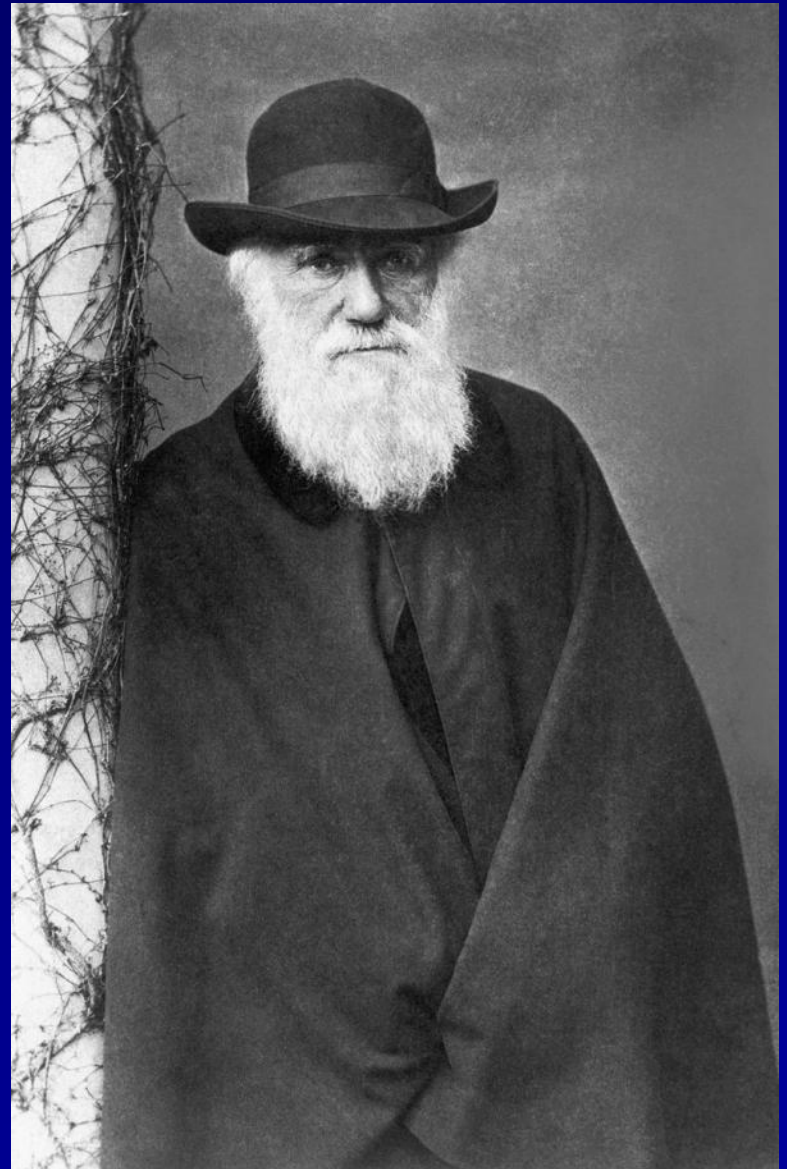
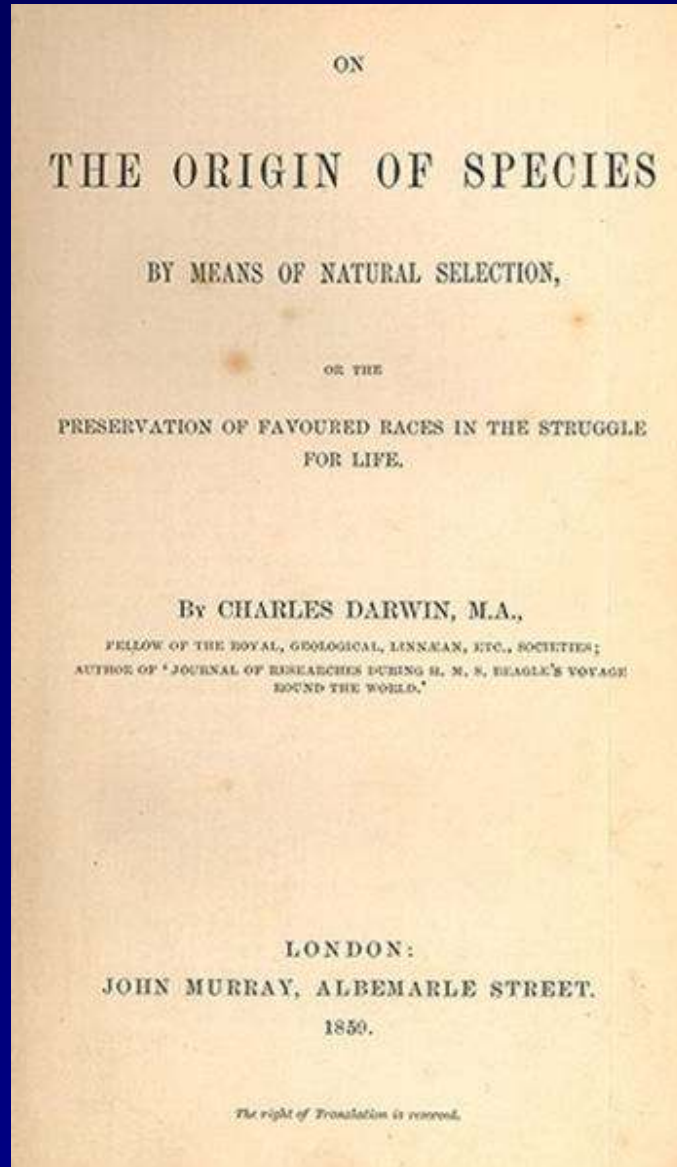
Or "Bait and Switch"



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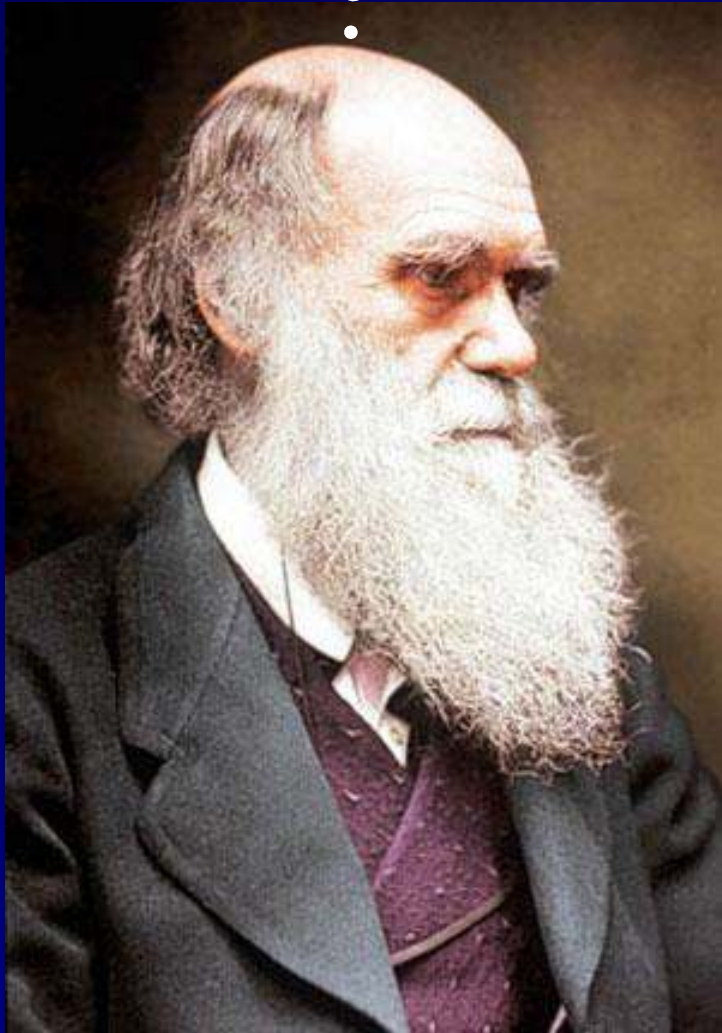
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**Darwin
proved
“survival of
the fittest.”
However, in
order to
prove
macro-
evolution, he
had to
establish,
“arrival of
the fittest”.**



?

Darwin Admitted His Weakness

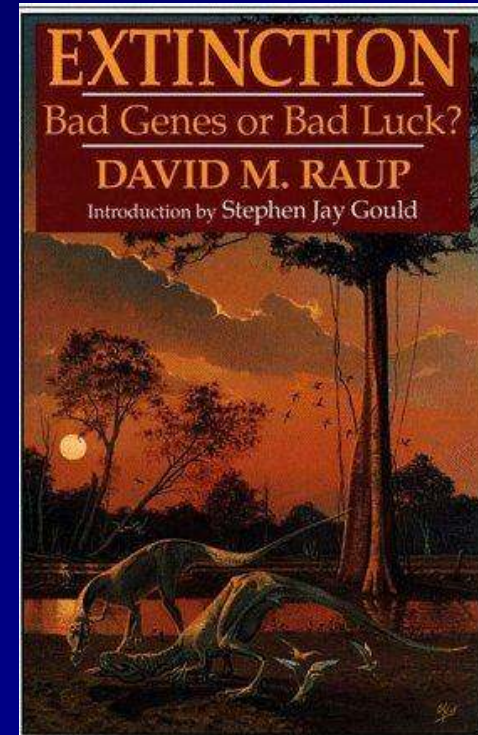


“Why is not every geological formation and every stratum full of such intermediate links? Geology assuredly does not reveal any such finely-graduated organic chain; and this, perhaps, is the most obvious and serious objection which can be urged against the theory”

**- The Origin of Species, 1872
edition, pp. 264, 265**

“The record of evolution is still surprisingly jerky and, ironically, we have even fewer examples of evolutionary transition than we had in Darwin’s time.”

-Dr. David M. Raup - “Conflicts Between Darwin and Paleontology,” *Bulletin, Field Museum of Natural History*, vol. 50 (January 1979), p. 25. Curator and Dean of Science at the Field Museum of Natural History, Chicago.



II. The Microevolution Maxim

a. Change (microevolution) occurs within animal kinds (*i.e.*, groups or types, within phylogentic boundaries, *aka* “variation within a kind”)

b. Microevolution does not cross phylogenetic boundaries into macroevolution (*i.e.*, animals do not change outside their kind)

II. The Microevolution Maxim *SIMPLIFIED*

● Animals can vary within their kind,
(**microevolution**) but cannot change
outside their kind (**macroevolution**).

Gen. 1:21, 24, 25

*“So God created great sea creatures and every living thing that moves, **with** which the waters abounded, according to their **kind**, and every winged bird according to its **kind**. And God saw that it was good.”*



Gen. 1:21, 24, 25

*“Then God said, “Let the earth bring forth the living creature according to its **kind**: cattle and creeping things and beast of the earth, **each** according to its **kind**; and it was so. And God made the beast of the earth according to its **kind**, cattle according to its **kind**, and everything that creeps on the earth according to its **kind**. And God saw that it was good.”*





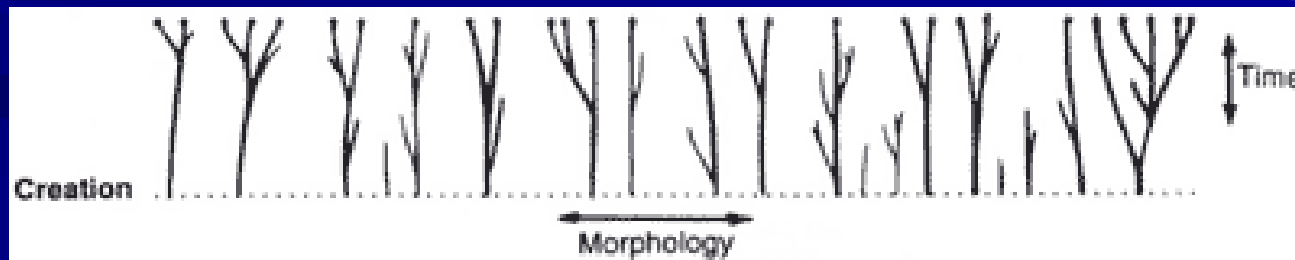
- Our English word “KIND” comes from the *Hebrew* word “Min,” from which is derived the study of “BARAMINOLOGY”

Baraminology

“Baraminology is a creationist taxonomic system that classifies animals into groups called "created kinds" or "baramins" according to the account of creation in the book of Genesis. It claims that differing kinds cannot interbreed, and have no evolutionary relationship to one another.”

- First Proposed by Frank Marsh in 1941.

Over time, do we see more or fewer kinds appearing on earth?

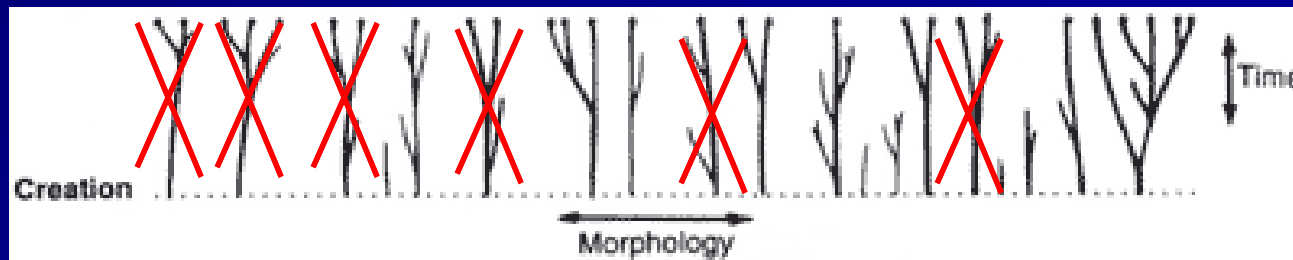


Baraminology

“Baraminology is the study of the natural kinds of the world, and the system of classification that can be developed to account for the biblical teaching of the origin of the world and life.”

• First

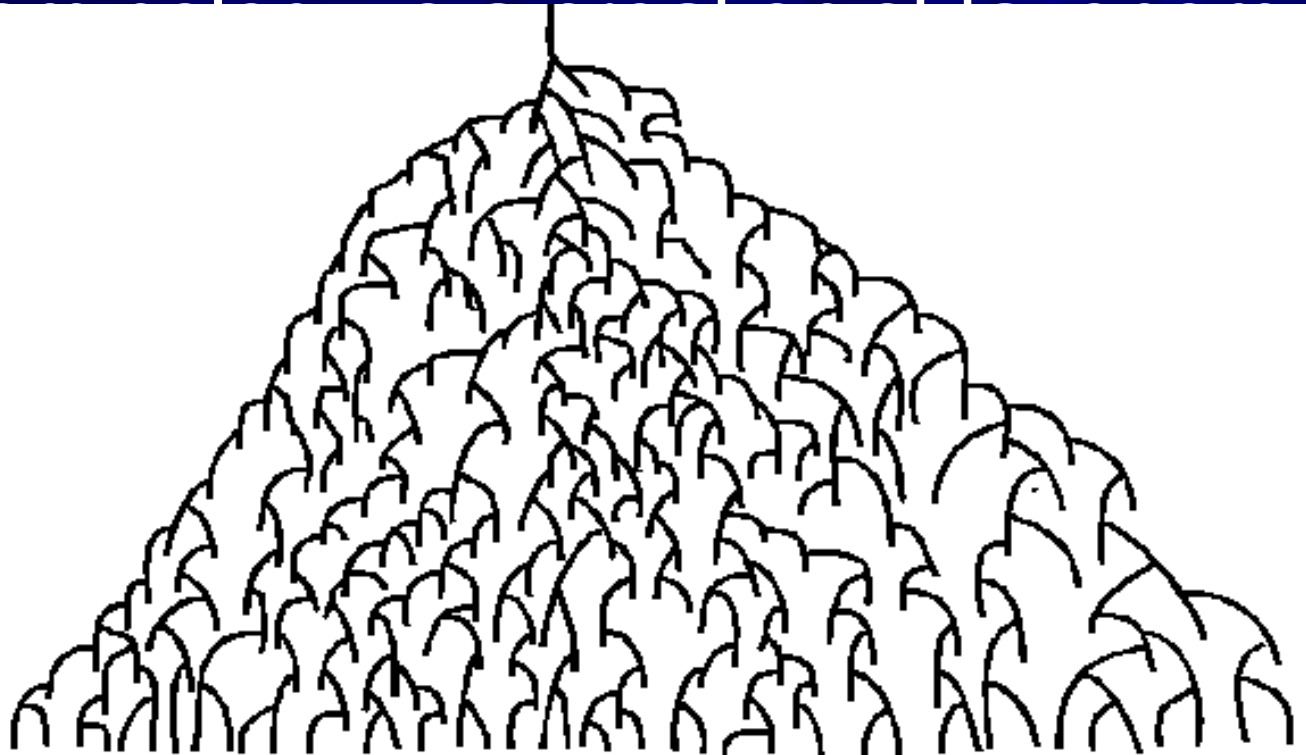
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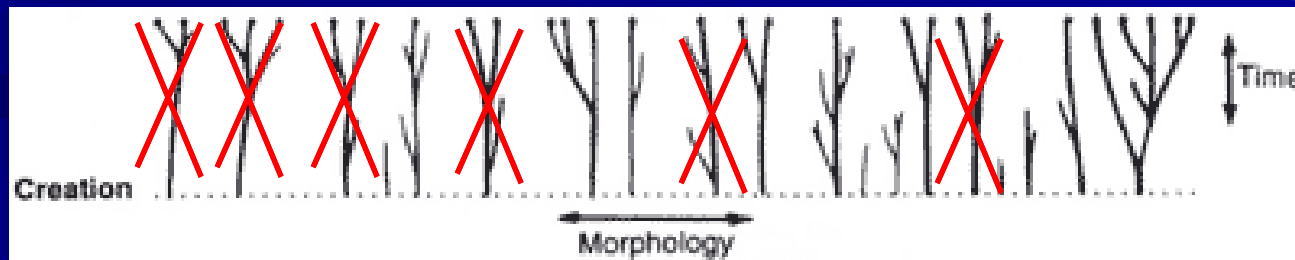
Baraminology

“Baraminology is a scientific discipline that can be used to determine if groups of organisms are created kinds or not.”

First



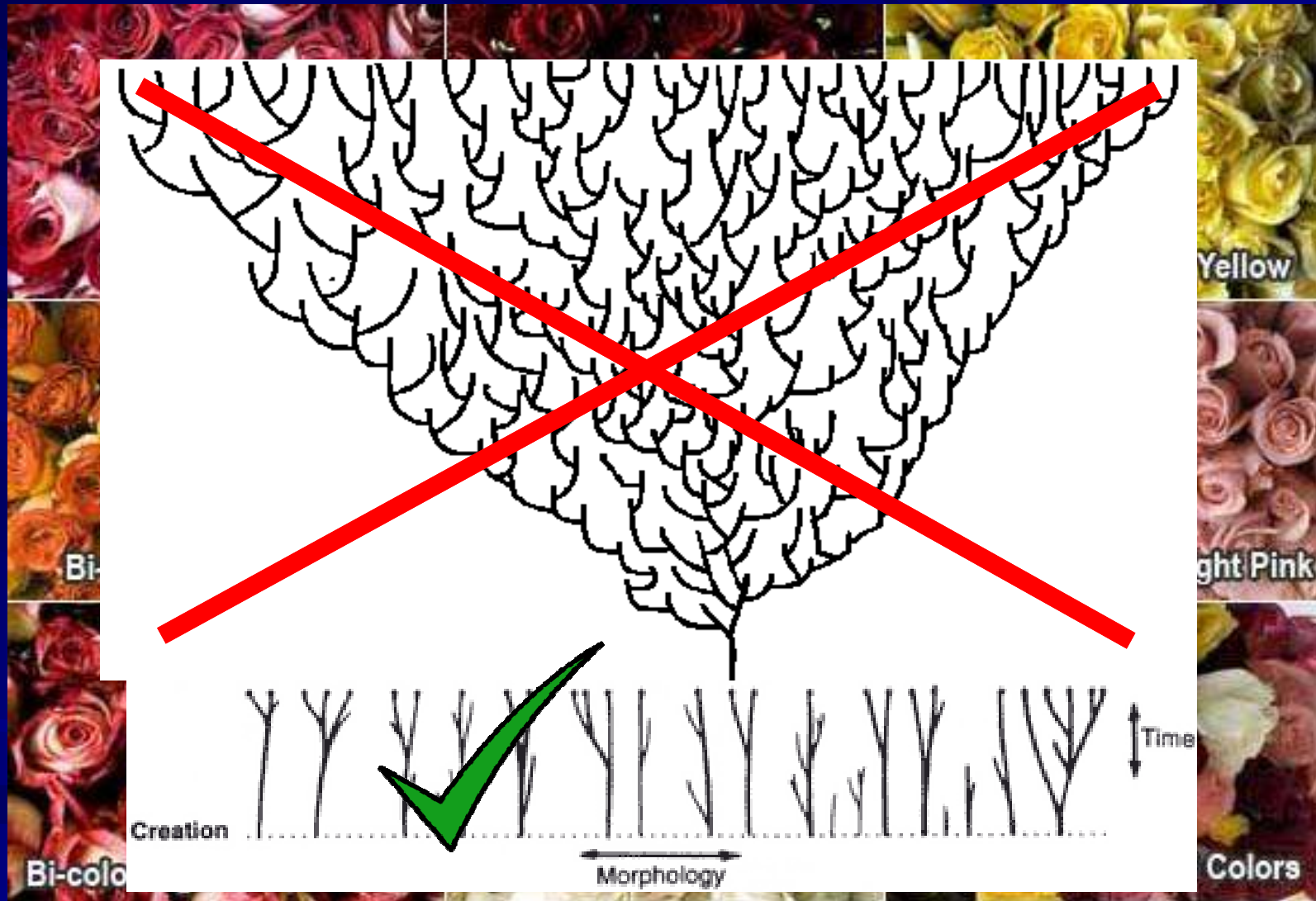
Over time, do we see more or fewer kinds appearing on earth?



> 1,300 Varieties of Roses



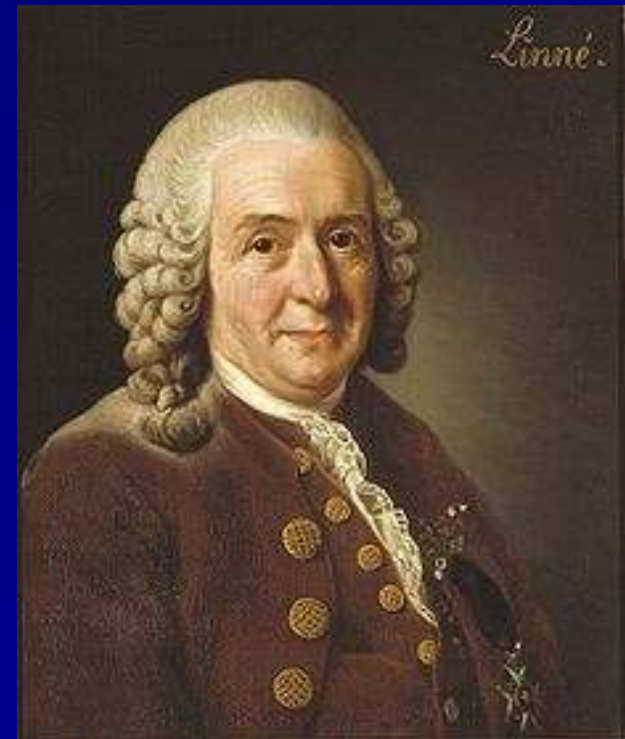
> 1,300 Varieties of Roses



Carl Linneé's (Carolus Linnaeus) Taxonomic Classification Scheme



Kingdom
Phylum
Class
Order
Family
Genus
species

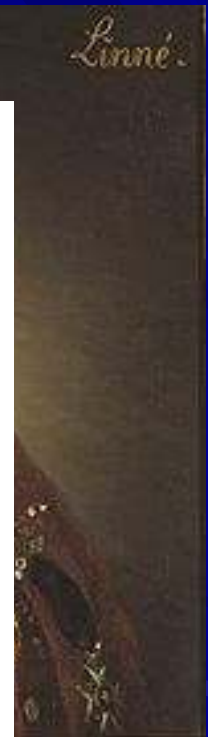
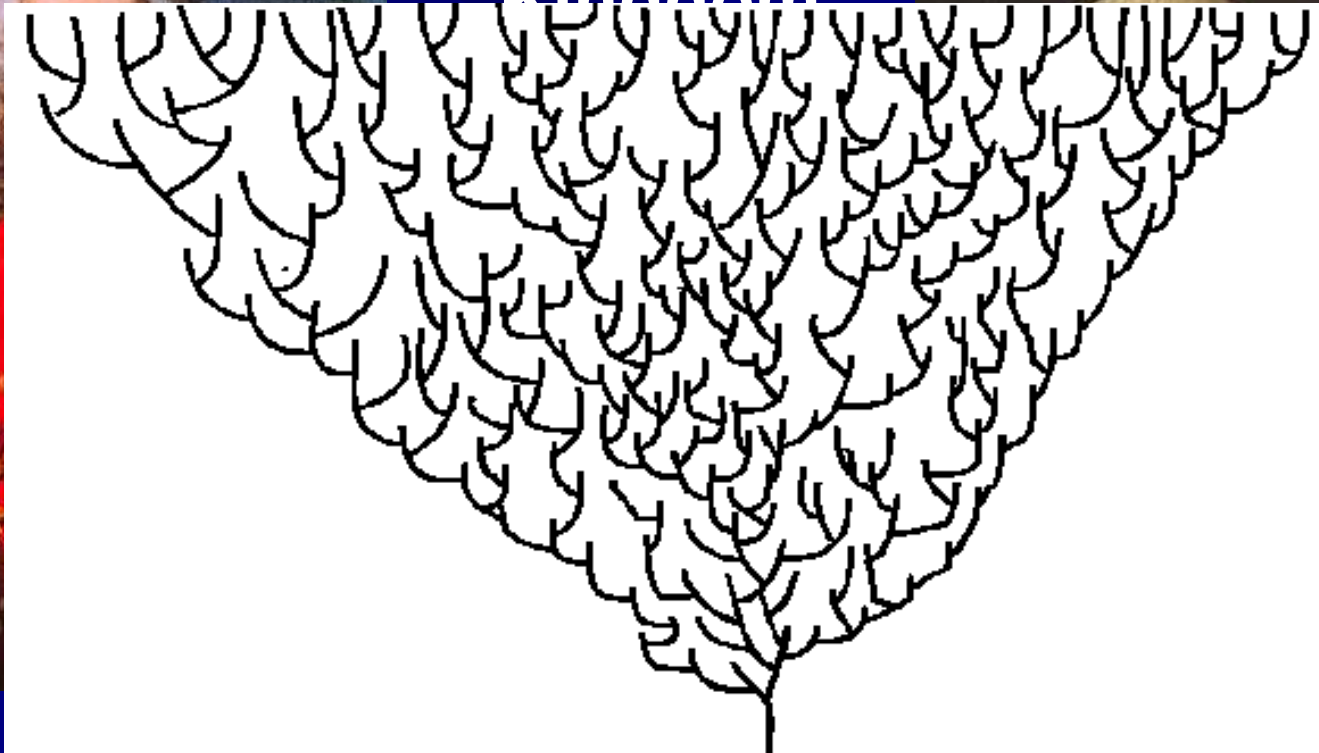


1707-1778

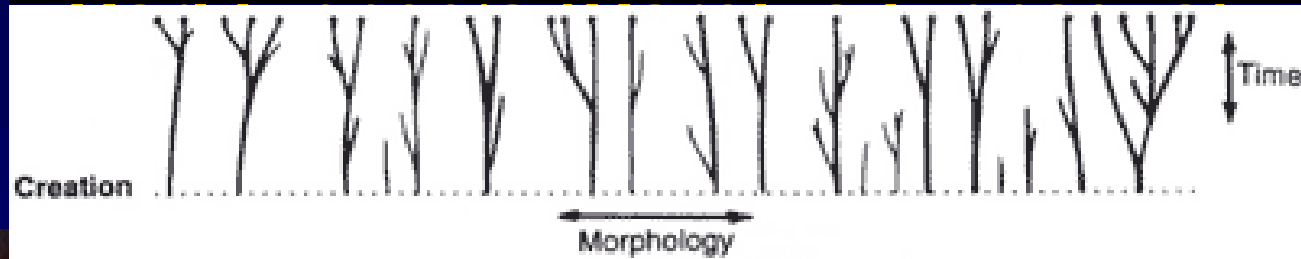
Carl Linneé's (Carolus Linnaeus) Taxonomic Classification Scheme



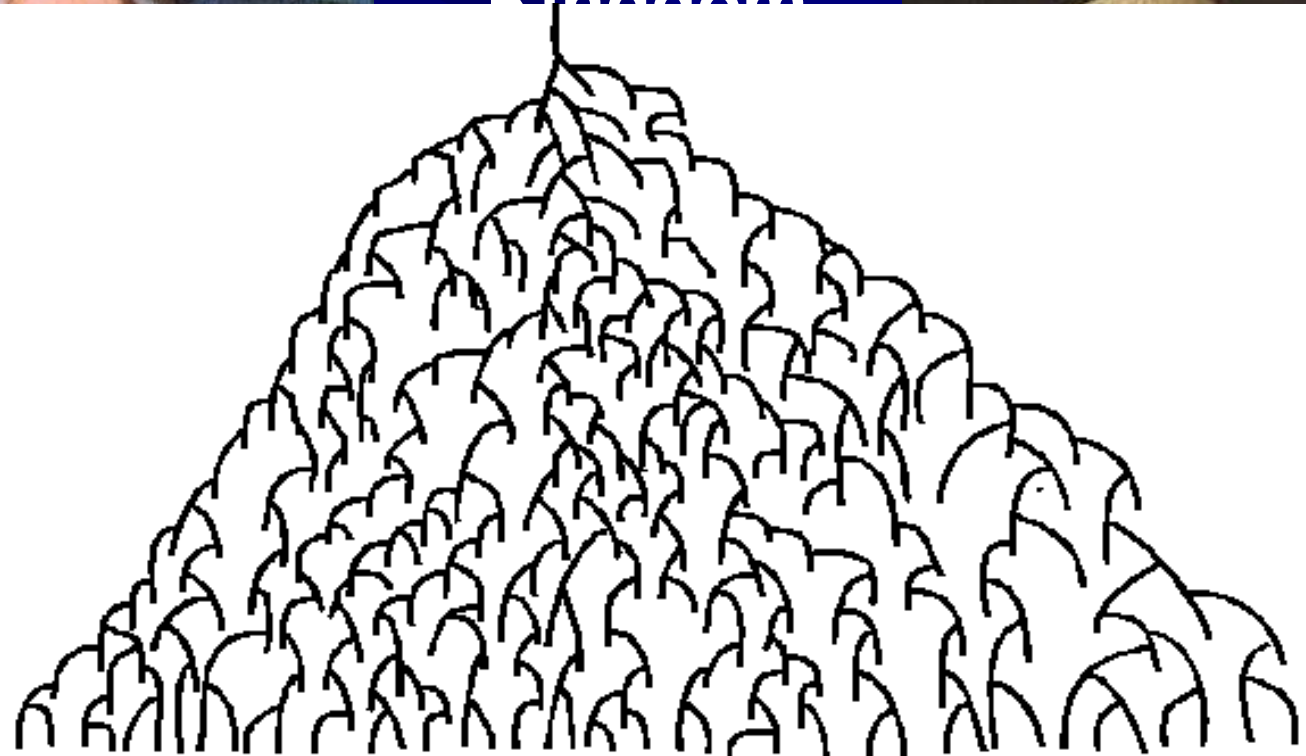
Kingdom



Lineé and Aristotle classified animals into discrete discontinuous groups.



Kingdom



Canidae *Canis*

Sdsnake.com



Coyote

animals.nationalgeographic.com



Gray Wolf

daveparsons.com



Golden Jackal



Dingo



Ethiopian Wolf



339 Recognized Breeds

Domesticated Dog

Canidae *Canis*



<https://www.youtube.com/watch?v=mwxV1wbBrfU> 0:30-0:54

New Guinea Dingo (“Singing Dog”)

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Canidae *Canis*

Sdsnake.com



Coyote

animals.nationalgeographic.com



Gray Wolf

daveparsons.com



Golden Jackal



Dingo



Ethiopian Wolf



339 Recognized Breeds

Domesticated Dog

Canidae *Canis*



Coywolf

Canidae *Canis*

Sdsnake.com



Coyote

animals.nationalgeographic.com



Gray Wolf

daveparsons.com



Golden Jackal



Dingo



Ethiopian Wolf



339 Recognized Breeds

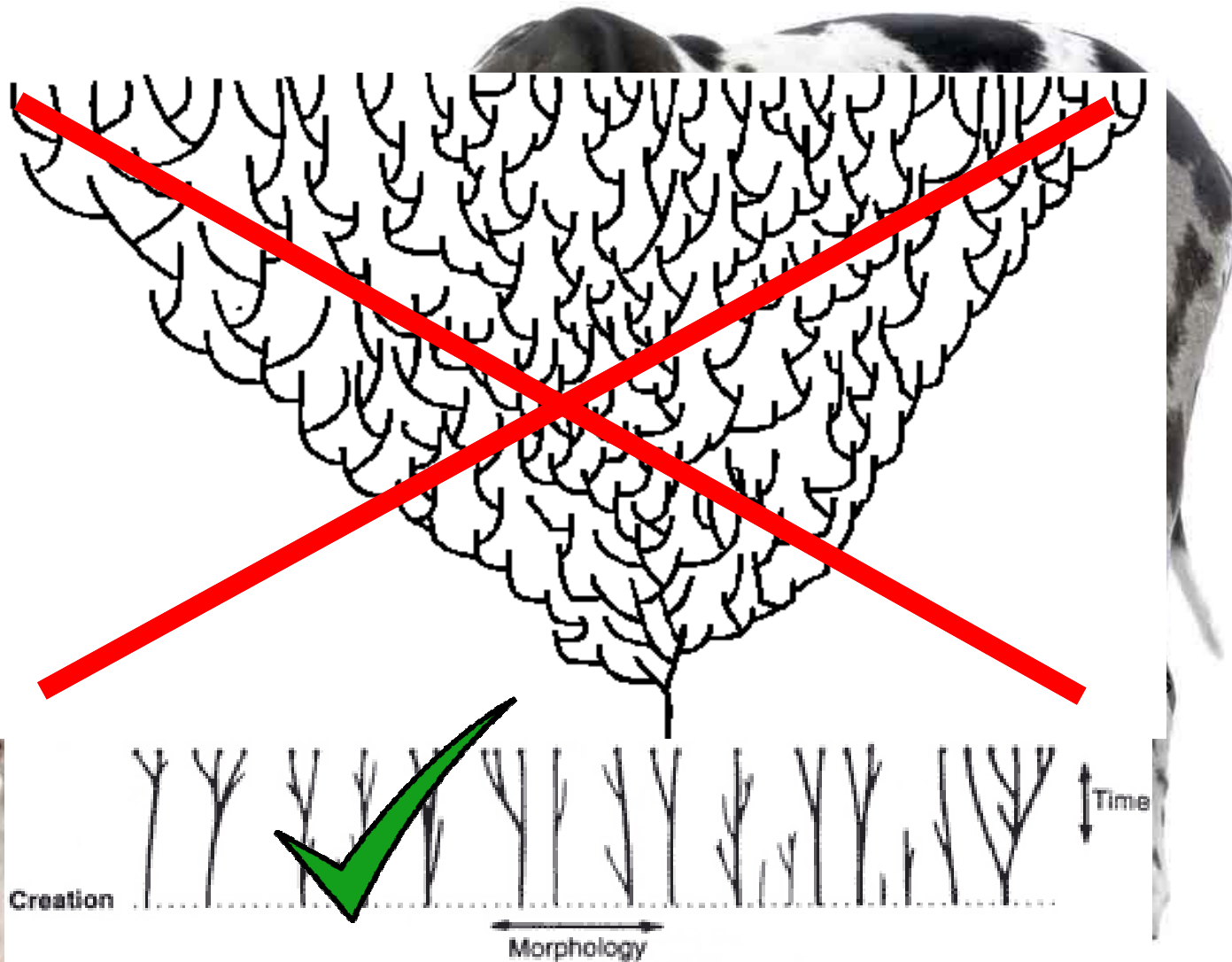
Domesticated Dog

Great Dane vs. Chihuahua



339 Recognized Breeds

Great Dane vs. Chihuahua



Felidae *Panthera*

animals.nationalgeographic.com



Lion

animals.nationalgeographic.com



Tiger

Liger



Liger.com

news.nationalgeographic.com



Tigon

Each Has Lost Some Genetic Information from Original Ancestor

animals.nationalgeographic.com

animals.nationalgeographic.com



Lion



Tiger

Liger (up to 920 lbs.)



Liger (up to 920 lbs.)



Domestic Cat



www.petpeoplesplace.com/resources/gallery/images/uploads/Abyssinian_802904131.jpg

www.zooinstitutes.com/animals/1385.jpg

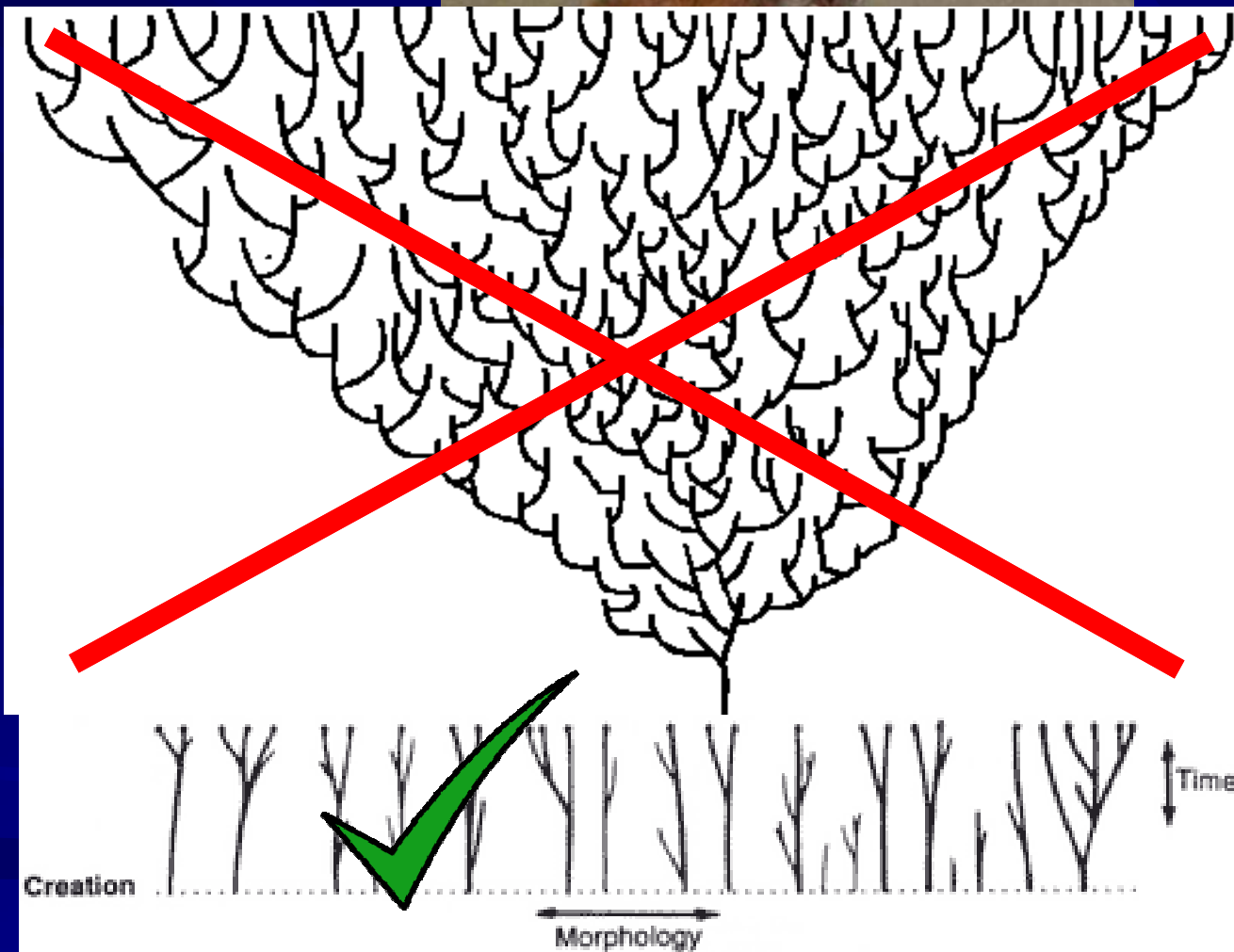


Caracal

Caracat



<https://caracats.wordpress.com>



Equidae *Equus zebra*



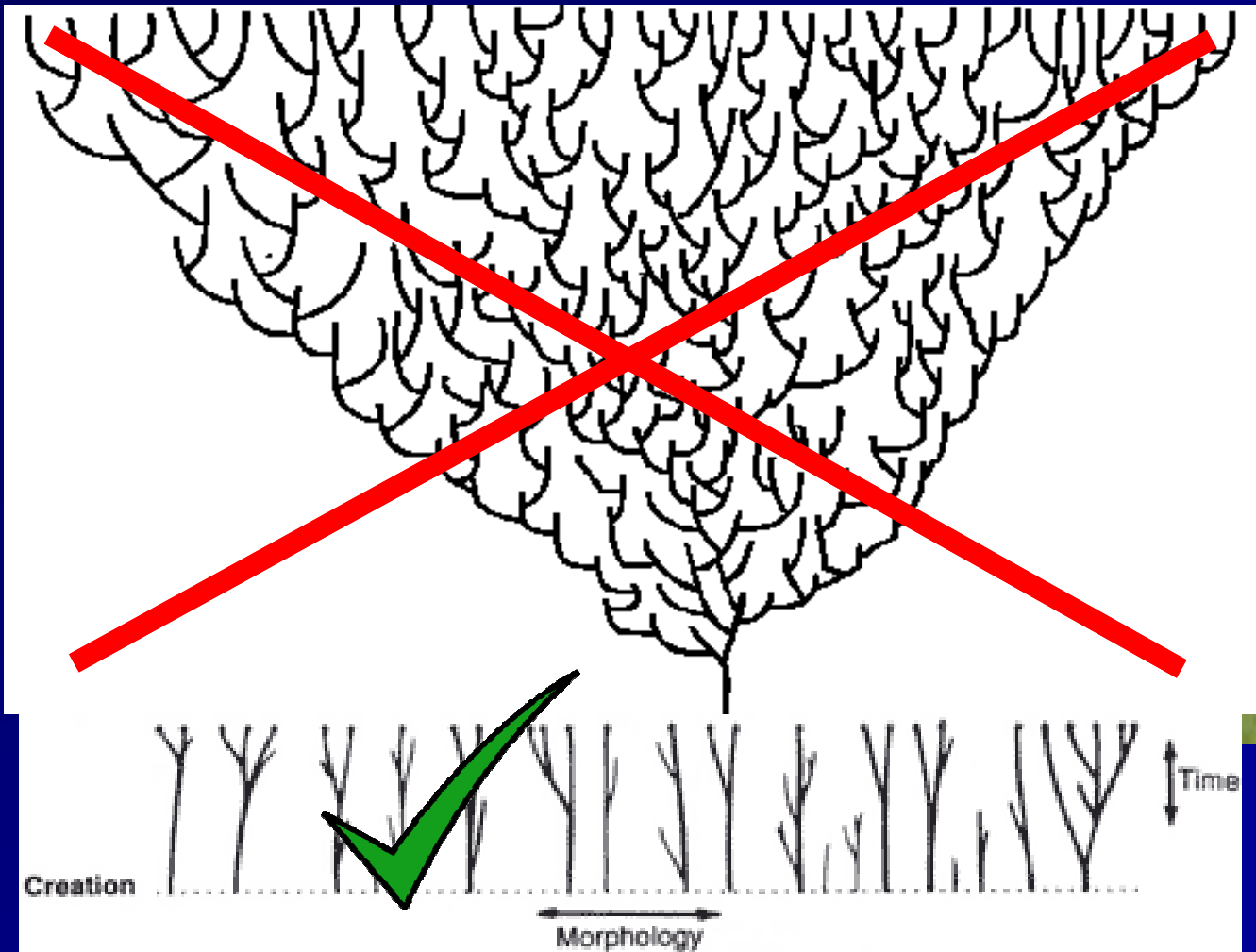
<http://thequickanddirtydirty.com/wp-content/uploads/2010/02/zebra.jpg>

Equidae *Equus ferus*



www.filebrothers.com/screenshot/horse-running-beach.jpg

Equidae *Equus zebra* + Equidae *Equus ferus* =



Equidae *Equus zebra* + Equidae *Equus ferus* =
Zebroid



www.oddee.com/item_96640.aspx

Zorse



Equidae *Equus zebra*



<http://thequickanddirtydirty.com/wp-content/uploads/2010/02/zebra.jpg>

Equidae *Equus africanus*



**Equidae *Equus zebra* + Equidae *Equus africanus* =
Zedonk**



**Equidae *Equus zebra* + Equidae *Equus africanus* =
Donkzee**





What We Don't See

What We Don't See: A Rhinebra



www.worth1000.com/hosted/tutorials/151216_copy_57200524520PM_1c_finished.jpg

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What We Don't See: A Bird Dog



www.worth1000.com/hosted/tutorials/151216_copy_57200524520PM_1c_finished.jpg

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What We Don't See: A Fox Bird



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What We Don't See: A Spider Bear



www.worth1000.com/hosted/tutorials/151216_copy_57200524520PM_1c_finished.jpg

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What We Don't See: Giraffe Turtle



What We Don't See: A Zebrant



What We Don't See: Elephantduck



What We Don't See: Rhinorooster



What We Don't See: Sealparrot



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What We Don't See: Gorillacrow



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What We Don't See: Leopardsquirrel



What We Don't See: Kangerlion



What We Don't See: Lionbee



What We Don't See: Duckhorse



What We Don't See: Sharkrhino



What We Don't See: Dogshark



What We Don't See: Catpeople



FreakingNews.com

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What We Don't See: Pugmonkey



What We Don't See: Pugbunny



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What We Don't See: Gorilephant



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What We Don't See: Spidersnake



Házi Csörgőpógyó
House Rattlesnake
(Arapentes)

What We Don't See: Lionowl



What We Don't See: Birdhorse



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What We Don't See: Tigereagles



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What We Don't See: Bunnybird



What We Don't See: Squirrelokeet



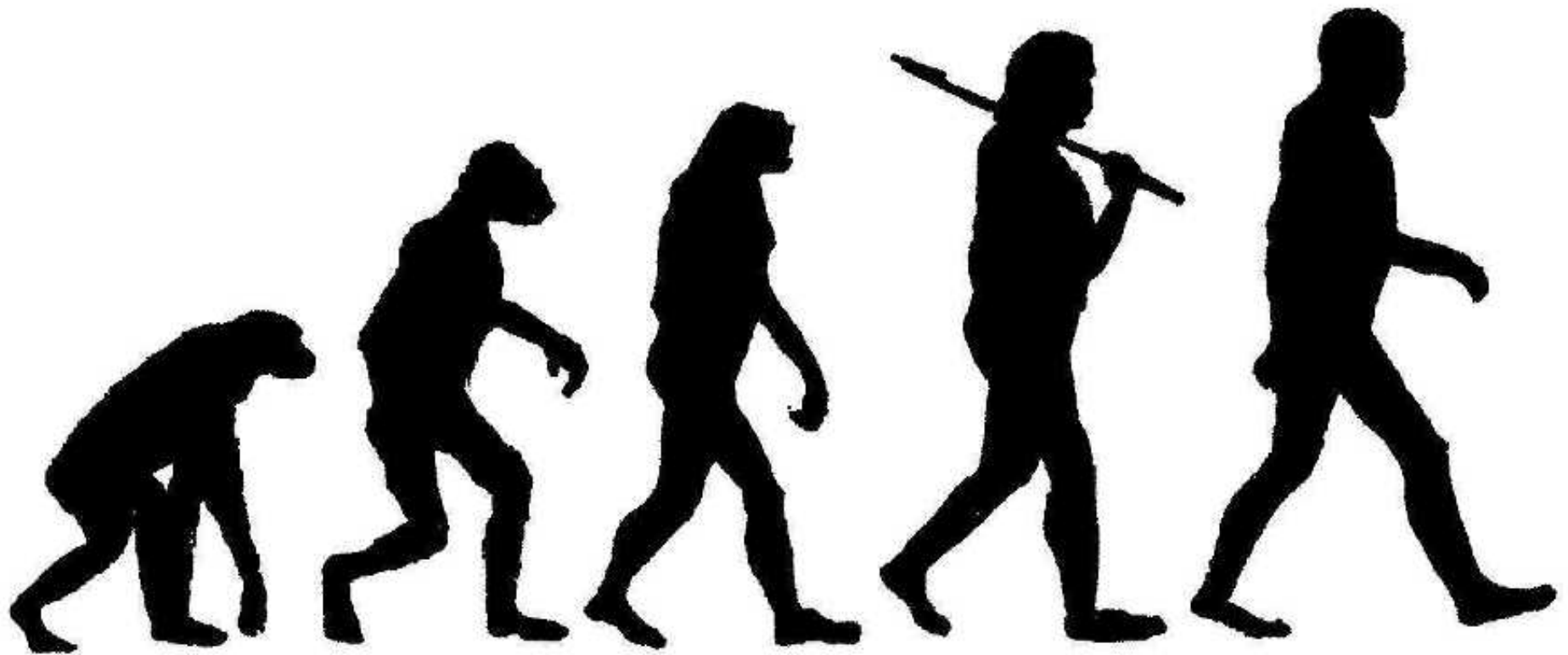
Pughorse

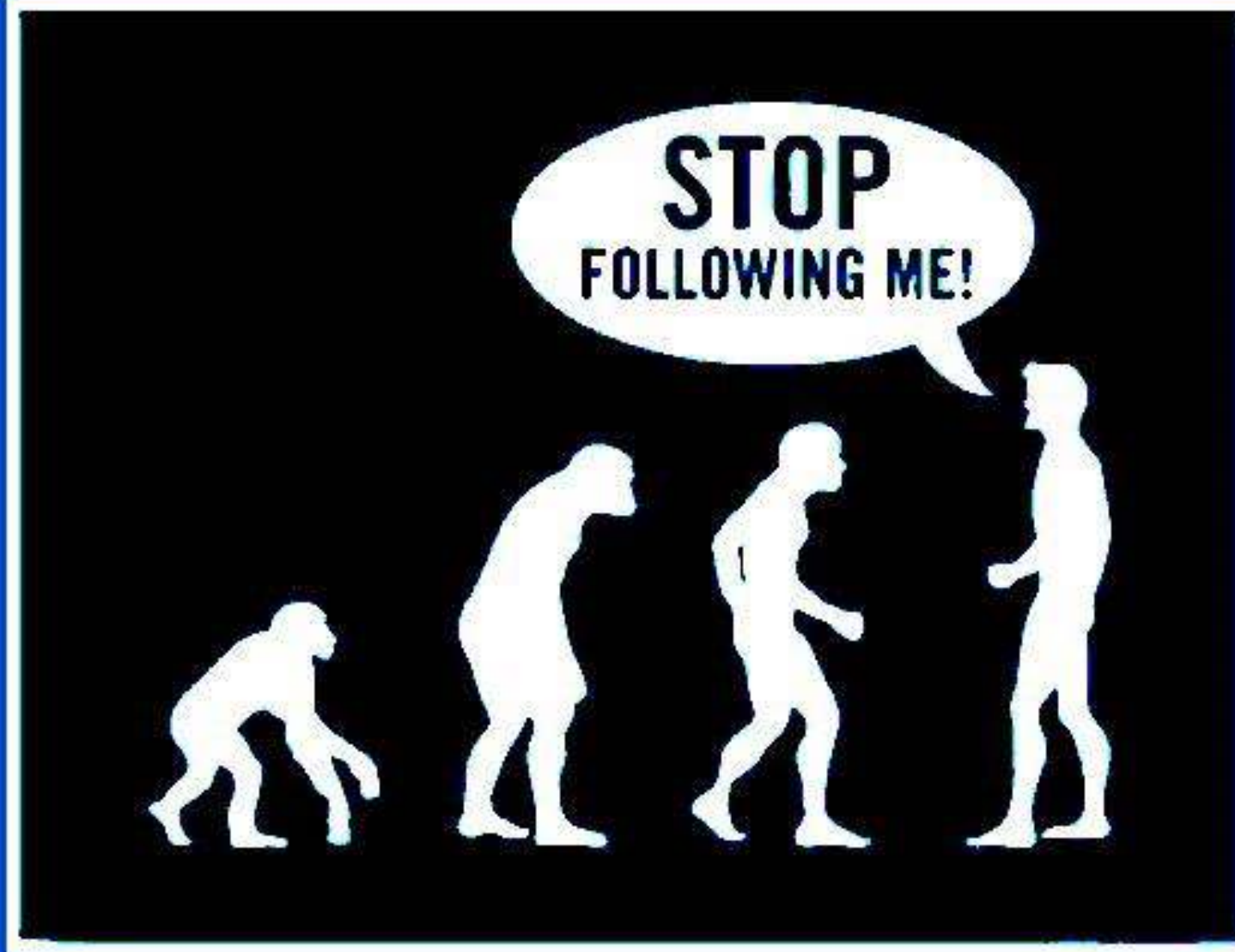


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What We Don't See: Ape-Men







WE'RE NOT RELATED!

Bovidae *Bison bison*



www.livingwilderness.com/wildlife/bison-standing.html

**Bovidae *Bos primigenius*
(aka, Domesticated Cattle)
(>800 breeds)**



http://kenfuchs42.net/lonestar2008_01.html

Bovidae *Bison bison* + Bovidae *Bos primigenius* =

Beefalo



<http://americanmonsters.com/site/2009/12/beefalo-usa>

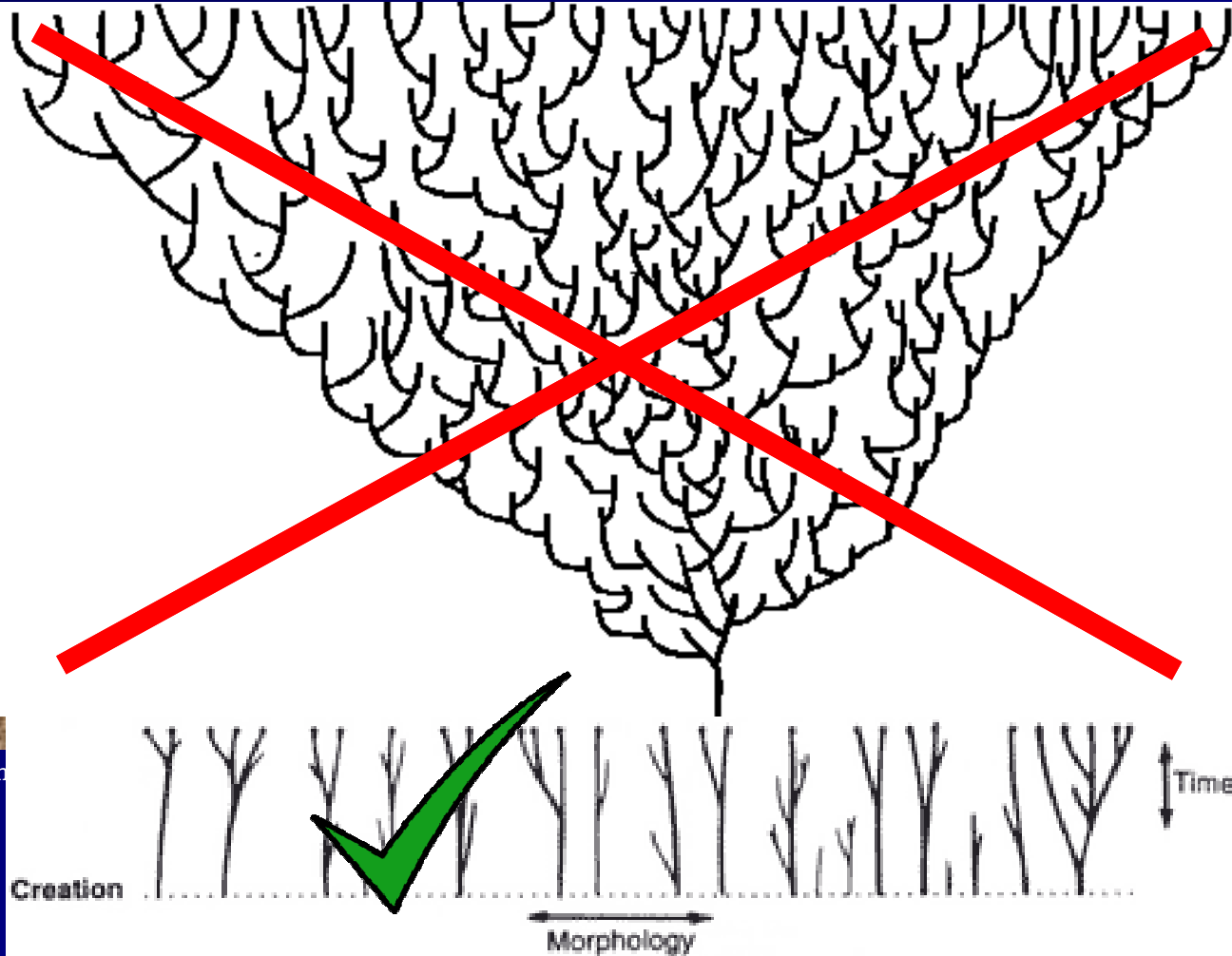


<http://www.texasheroes.net/Cattalo.jpg>

Bovidae *Bison bison* + Bovidae *Bos primigenius* =



<http://am>



Cattalo.jpg

14 Members of The Cattle Kind

The Cattle Kind

1. American Bison



2. Domesticated Cattle



The Cattle Kind

3. Musk Ox



The Cattle Kind

4. Cape Buffalo



The Cattle Kind

5. Auroch

(Progenitor to Domesticated Cattle. Last female died in 1627)



The Cattle Kind

6. Wild Yak (Himalayans)



Bovidae *Bos grunniens*+ Bovidae *Bos primigenius* =



**Bovidae *Bos grunniens*+ Bovidae *Bos primigenius* =
Yattle**



© www.travel-pictures-gallery.com

Bovidae *Bos grunniens*+ Bovidae *Bison bison*=



**Bovidae *Bos grunniens*+ Bovidae *Bison bison*
Yakalo**



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The Cattle Kind

7. Asian Banteng

ARKive
www.arkive.org



The Cattle Kind

8. Kouprey (SE Asian Grey Ox)



The Cattle Kind

9. Gaur (Indian Bison)



The Cattle Kind

10. European Bison



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Ancient European Cave Paintings



The Cattle Kind

10. European Bison



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Compare to American Bison



The Cattle Kind

10. European Bison



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The Cattle Kind

11. Wild Water Buffalo (Asian Buffalo)



The Cattle Kind

12. Tamaraw (Mindoro Dwarf Buffalo- Philippines)



The Cattle Kind

13. Indonesian Lowland Anoa ("Midget Buffalo" < 500 Left)



The Cattle Kind

14. Indonesian Mountain Anoa ("Midget Buffalo" < 500 Left)



14 Members of The Cattle Kind All Descended from a Common Ancestor Because. They're All the Same KIND!



**Dutch Back-
Breeding
Project to
Produce an
Auroch From
Various Cattle
Genes**

<http://www.direwolfproject.com/breeding-back.html>

14 Members of The Cattle Kind

All Descended from a Common Ancestor Because. They're All the



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The Cattle Kind

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(Progenitor to Domesticated Cattle. Last female died in 1627)



Camelidae *Camelus bactrianus*



<http://cdmi.cesr.fr/pub/Sandbox/ANewCamel/camel.jpg>

Camelidae *Lama glama*



http://commons.wikimedia.org/wiki/File:Domestic_Lama.jpg

Camel and Lama Separated Across
Two Continents Over Thousands of
Miles, Supposedly Over Millions of
Years



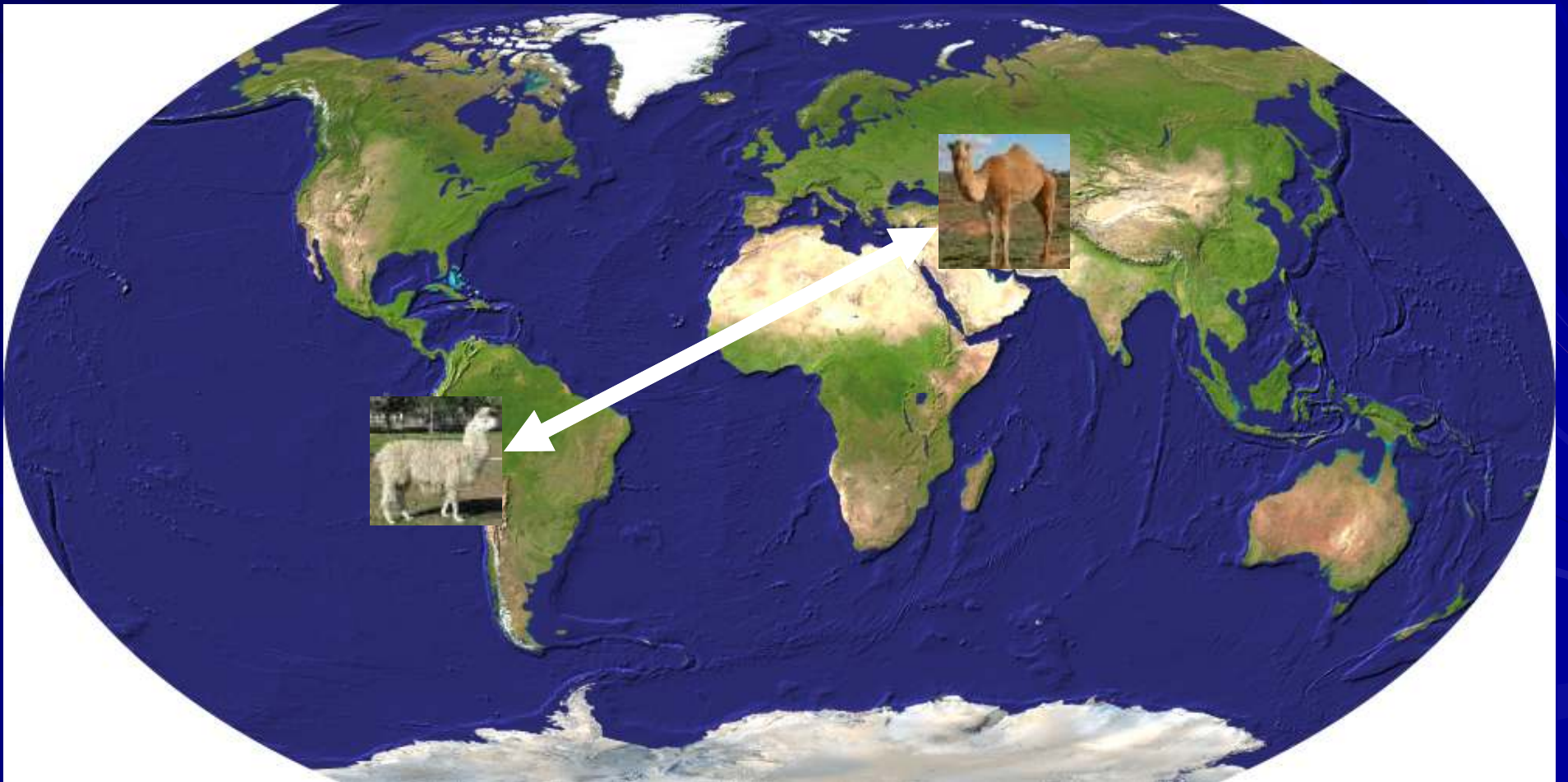
**They Can Still
Interbreed!!**

**Camelidae *Camelus bactrianus* +
Camelidae *Lama glama* =
Cama**



www.hemmy.net/2006/06/19/top-10-hybrid-animals/

This Says that The Camel and Lama Have NOT
Been Geographically-isolated for Millions of Years



Gen. 1:21, 24, 25

*“So God created great sea creatures and every living thing that moves, with which the waters abounded, according to their **kind**, and every winged bird according to its **kind**. And God saw that it was good.”*

*“Then God said, “Let the earth bring forth the living creature according to its **kind**: cattle and creeping thing and beast of the earth, each according to its **kind**; and it was so. And God made the beast of the earth according to its **kind**, cattle according to its **kind**, and everything that creeps on the earth according to its **kind**. And God saw that it was good.”*

Bird



≠

Snake



≠

Turtle



≠

Bat



≠

Rat



≠

Cat



≠

Dog



≠

Pig



≠

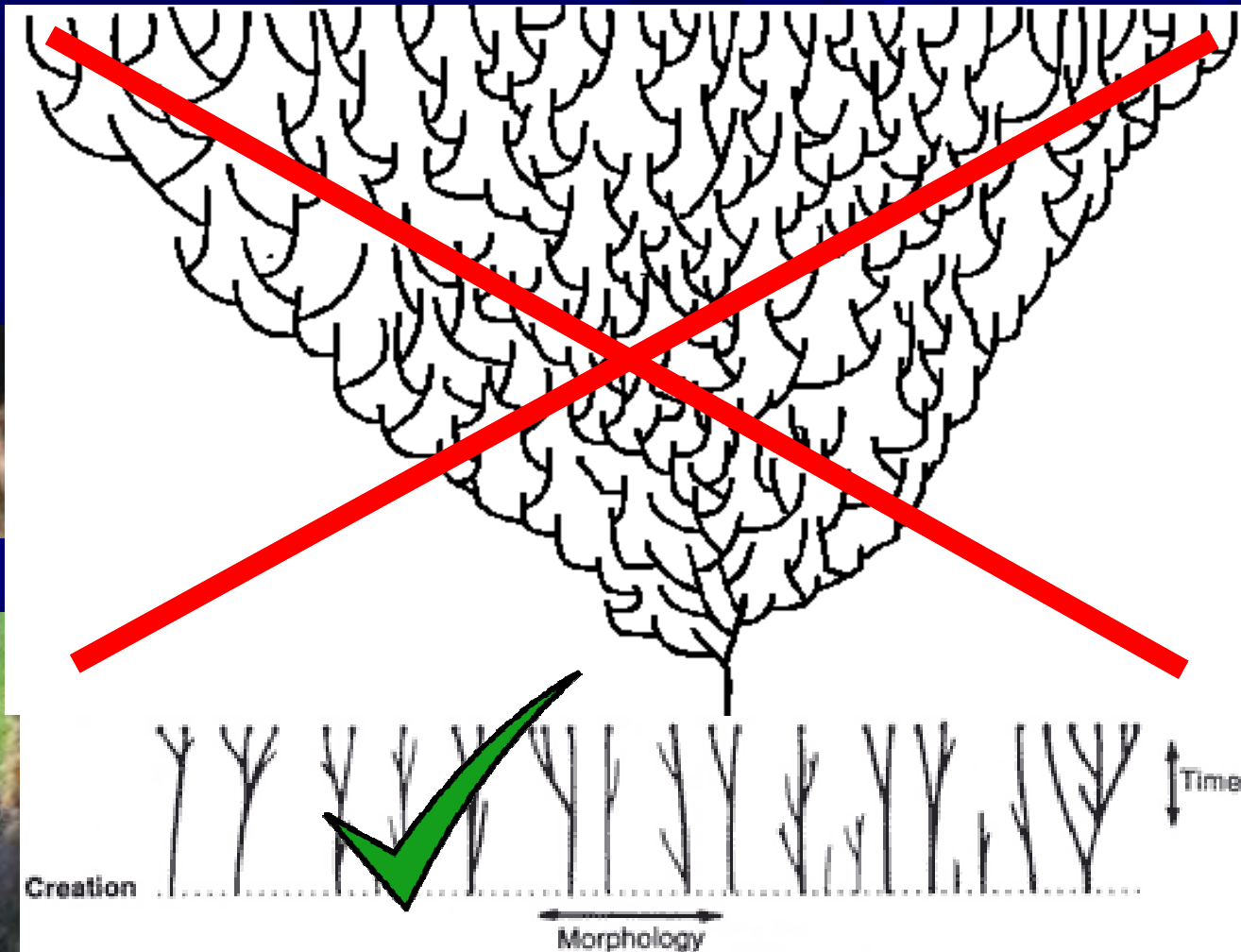
Monkey



≠

Man





Man



Some Final Issues for Discussion

So, How Did Noah Fit All Those Animals in the Ark?

So, How Did Noah Fit All Those Animals in the Ark?

1. 506,000 feet³ of space on each of 3 decks = 1.5 million feet³ of space (equivalent to 627 freight carriers or 500 semi trailers)
2. Only ~8,000 distinct animal kinds
3. Could have taken juveniles or eggs



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627 Standard
Freight Carriers

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www.church.org

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500 - 45' Semi Trailers or A line of trucks 117 football fields long.

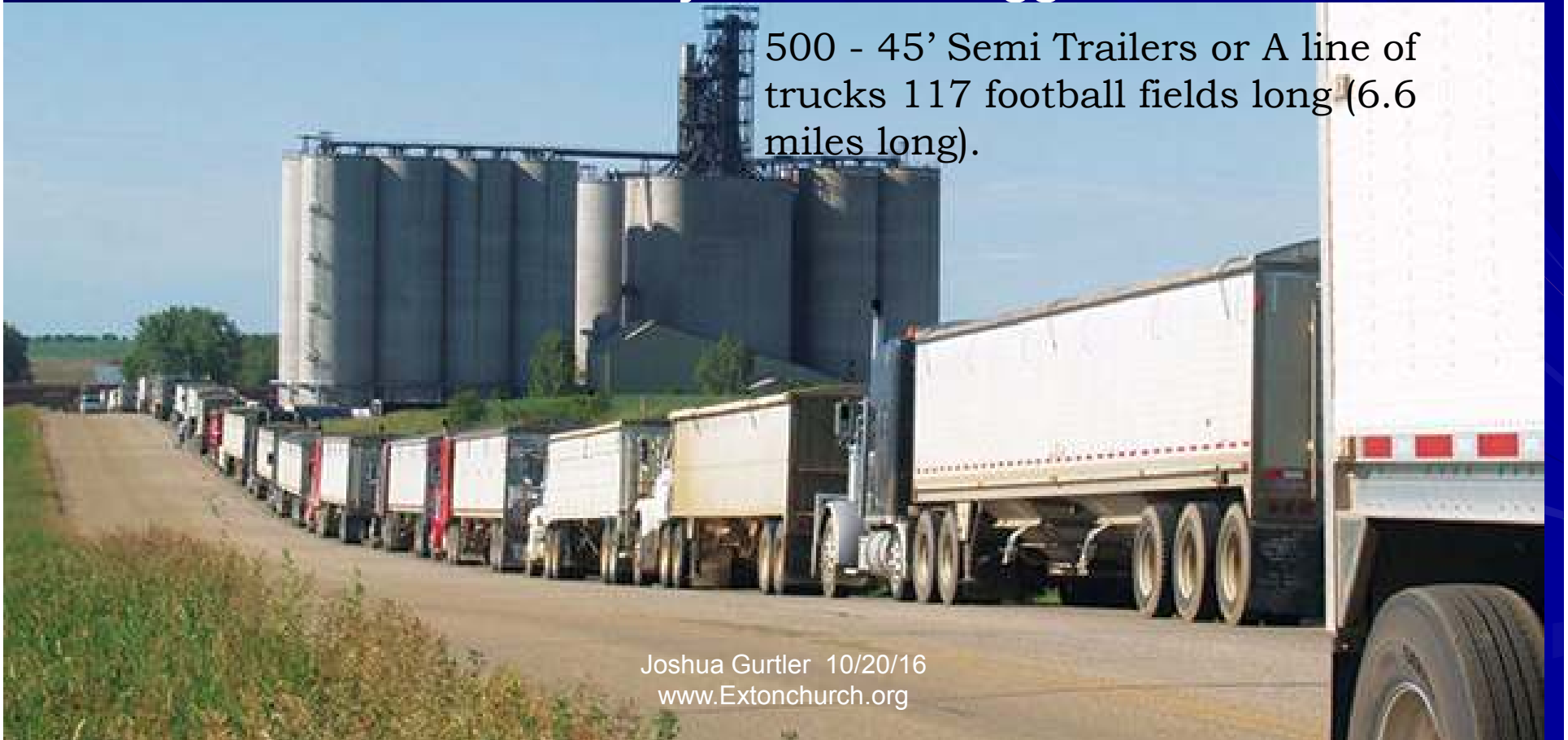


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So, How Did Noah Fit All Those Animals in the Ark?

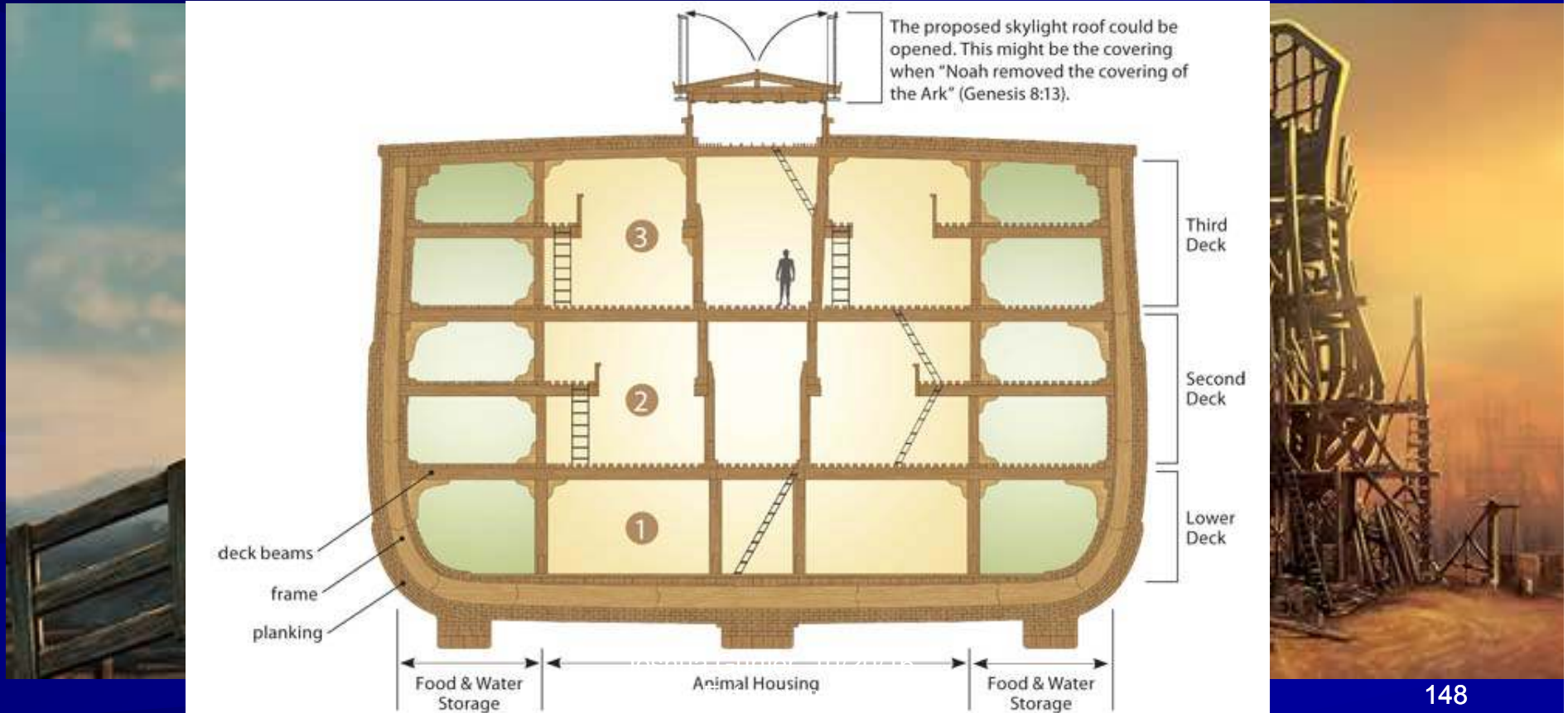
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500 - 45' Semi Trailers or A line of trucks 117 football fields long (6.6 miles long).



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Ceratopsia

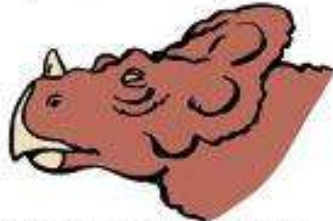
A few examples



Triceratops



Leptoceratops



Montanoceratops



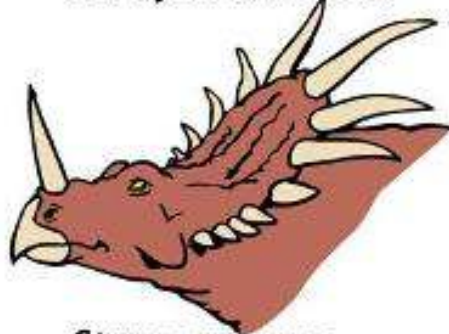
Eoceratops



Pentasaurus



Pachyrhinosaurus



Styracosaurus



Torosaurus



Anchiceratops



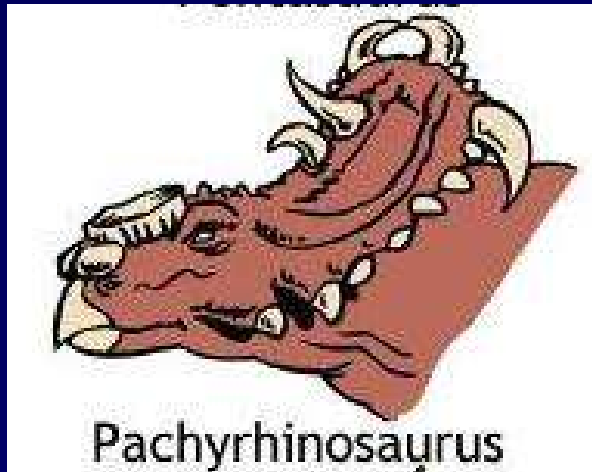
Chasmosaurus



Centrosaurus

© 2006 Answers in Genesis

Infraorder of Related Dinosaurs



Pachyrhinosaurus



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What Do Similarities in Human and Chimpanzee DNA Indicate?

- Evolutionists argue that **chimpanzees** may be our closest living “relative” sharing 98.5-99.4% homologous DNA.
- The Journal *Nature*, in 2005, had a special issue dedicated to the chimp genome and **chimp/human** relatedness. Some called it “*the most dramatic confirmation yet.*” One headline stated, “*Charles Darwin was Right and Chimp Gene Map Proves It.*”
- What did they find? There was **200% greater difference** between **chimp** and **human** DNA than previously thought (i.e., 96%)
- This seems highly similar, but human genome has **2.9 billion base pairs**, so this amounts to **116 million differences!**
- Plus, there are 40-45 million genes in **humans** missing from **chimps** and vice versa. (Note: **Sickle cell anemia** is only a single base pair difference!)

What Do Similarities in Human and Chimpanzee DNA Indicate?

- What's the Point? If **Humans** evolved from **chimp-like** creatures, it would require at least 116 million persistent (accumulating), beneficial point mutations. . . . But we can't find one! (**PBS Principle**)
- Further, this evolutionary process supposedly occurred in only 300,000 generations (i.e., 6 million years)
- **HOWEVER**, a bacterium with a 20 min. generation time, goes through **368,320 generations in only 14 years** and, yet we don't see ONE positive, persistent (accumulating) mutation, much less 116 million!
- **In 25 years**, a bacterium goes through **657,000 generations = 13.1 million years in supposed human evolutionary time**
- Finally, although **chimps** and **humans** are supposed to be more closely related, sharing a common ancestor that came after the **gorillas**, guess what was found when comparing their three genomes? . . . 18-29% of human genetic markers are more similar to gorillas than to chimps – (which disproves evolution) reflects an intelligent designer making mix-and-match mosaics in creation (cf. **duck billed platypus**, **red panda**, **human** and **octopus eyes**, etc.).

Conclusion: The Microevolution MAXIM

● Animals can vary within their kind,
(microevolution) but cannot change
outside their kind (macroevolution).



Common Ancestor Or COMMON DESIGNER?



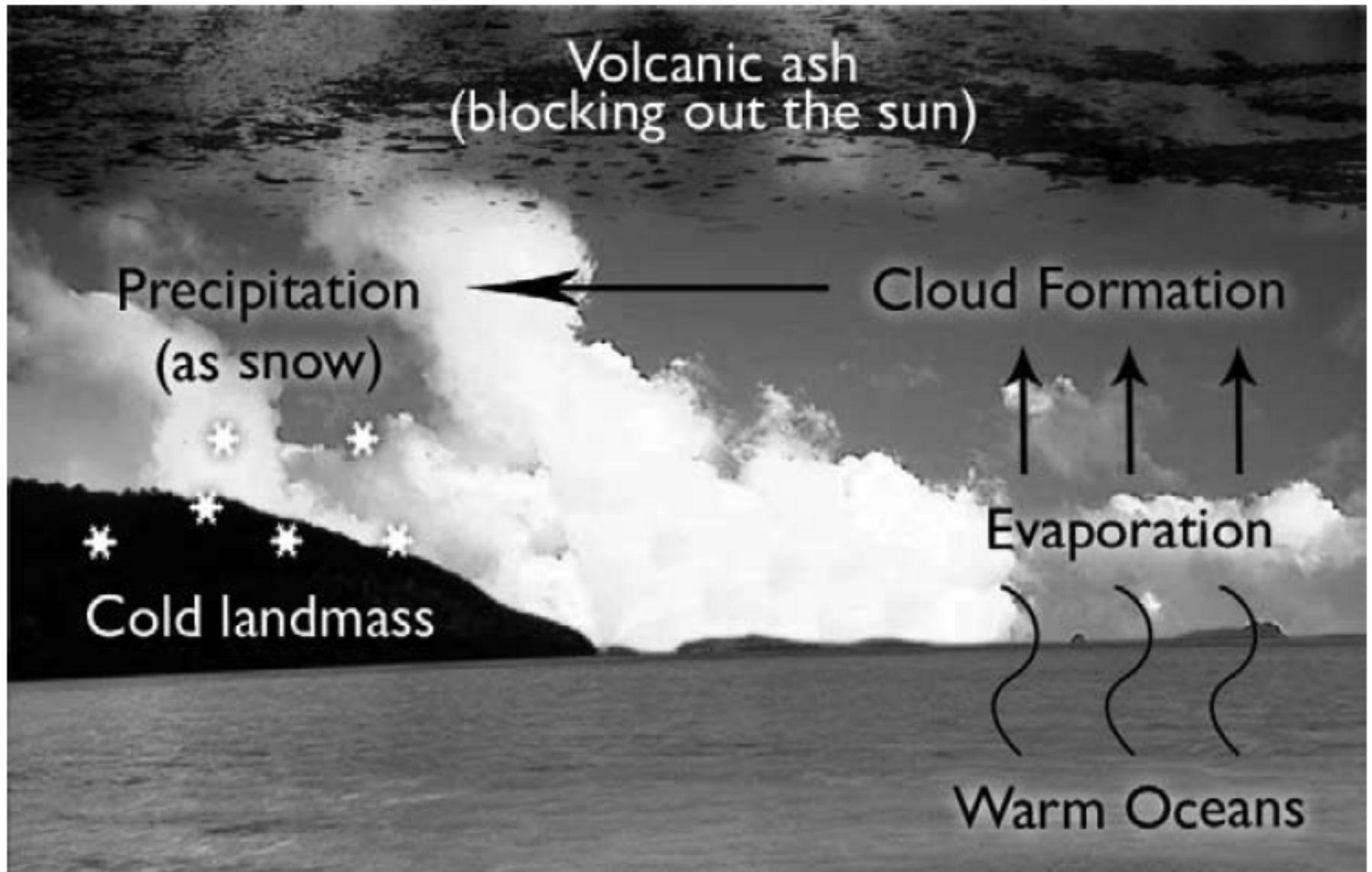
Similarities Outside an Animal Kind = COMMON DESIGNER! Intelligent Design!!



What About the “Ice Age”

Recommendation: Go to
www.creation.com and do a
search for “ice age”

It will turn up Nineteen (19)
articles on the ice age.



Interestingly, there seem to be certain references to this Ice Age in the ancient book of Job (37:9–10, 38:22–23, 29–30), who perhaps lived in its waning years. (Job lived in the land of Uz, Uz being a descendant of Shem [Gen. 10:23], so that most conservative Bible scholars agree that Job probably lived at some time between the Tower of Babel and Abraham.) God questioned Job from a whirlwind, *‘Out of whose womb came the ice? And the frost of the heavens, who fathered it? The waters are hidden like stone, and the face of the deep is frozen’* (Job 38:29–30). Such questions presuppose Job knew, either firsthand or by historical/ family records, what God was talking about. This is probably a reference to the climatic effects of the Ice Age—effects not now seen in the Middle East.