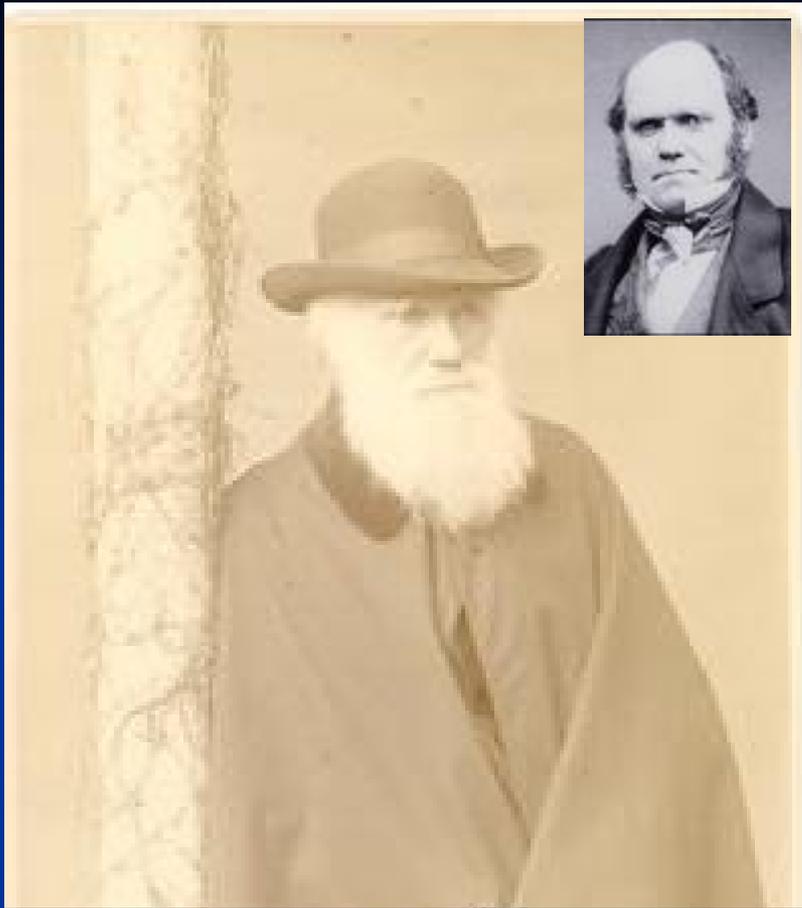


<http://www.ateneo.edu/ecce>

Click on “ECCE WIKI”

Or go straight to <https://ohm.ecce.admu.edu.ph/>

4. Click on “Courses”
5. Click on **Science and Society (Science 10)**
6. Download Evolution 2.pdf



- Born 12 Feb 1809
- Medicine (Edinburgh University), Theology (Cambridge)
- 1859, publication of *The Origin of Species*

<http://en.wikipedia.org/wiki/Evolution>

<http://www.picturehistory.com/product/id/15157>



- The second voyage of HMS Beagle from 27 December 1831 to 2 October 1836 was the second survey expedition of HMS Beagle
- Captain Robert FitzRoy accompanied by a student clergyman Charles Darwin
- Darwin made his name as a naturalist and became a renowned author with the publication of his journal which became known as **The Voyage of the Beagle.**
- The Beagle sailed across the Atlantic Ocean then carried out detailed hydrographic surveys around the coasts of the southern part of South America, returning via Tahiti and Australia having circumnavigated the Earth. While the expedition was originally planned to last two years, it lasted almost five.





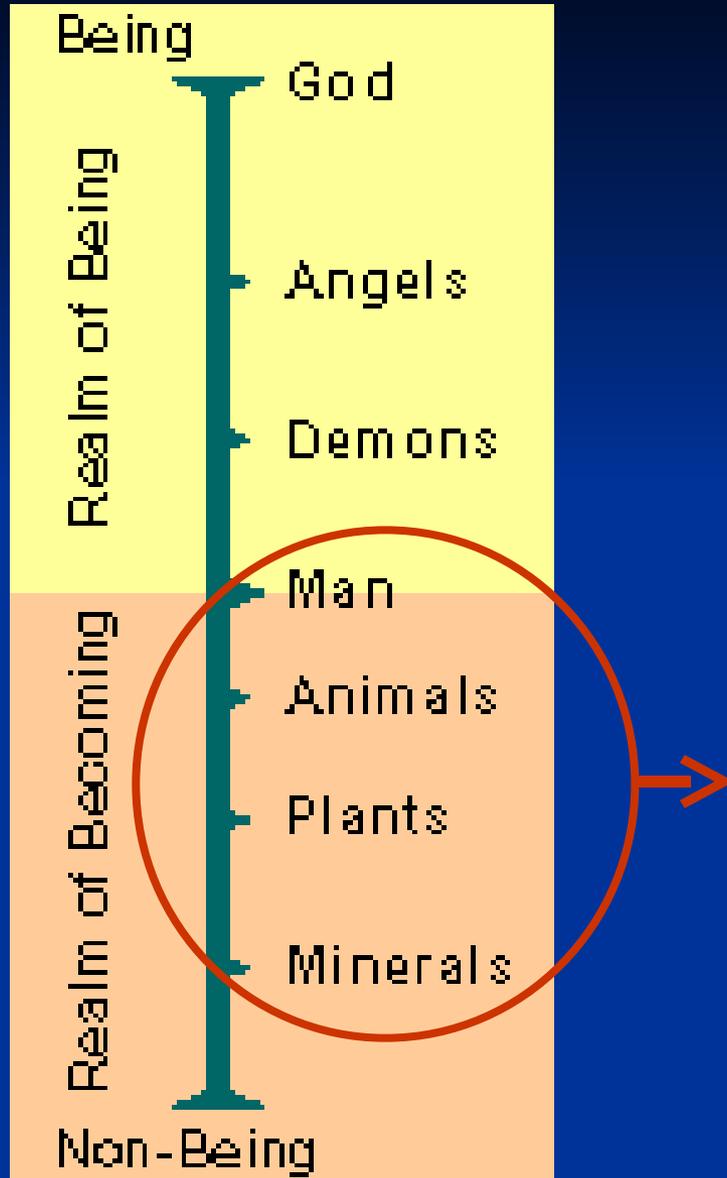
We will now turn to the order of reptiles, which gives the most striking character to the zoology of these islands. The species are not numerous, but the numbers of individuals of each species are extraordinarily great.

*Darwin's Checklist*

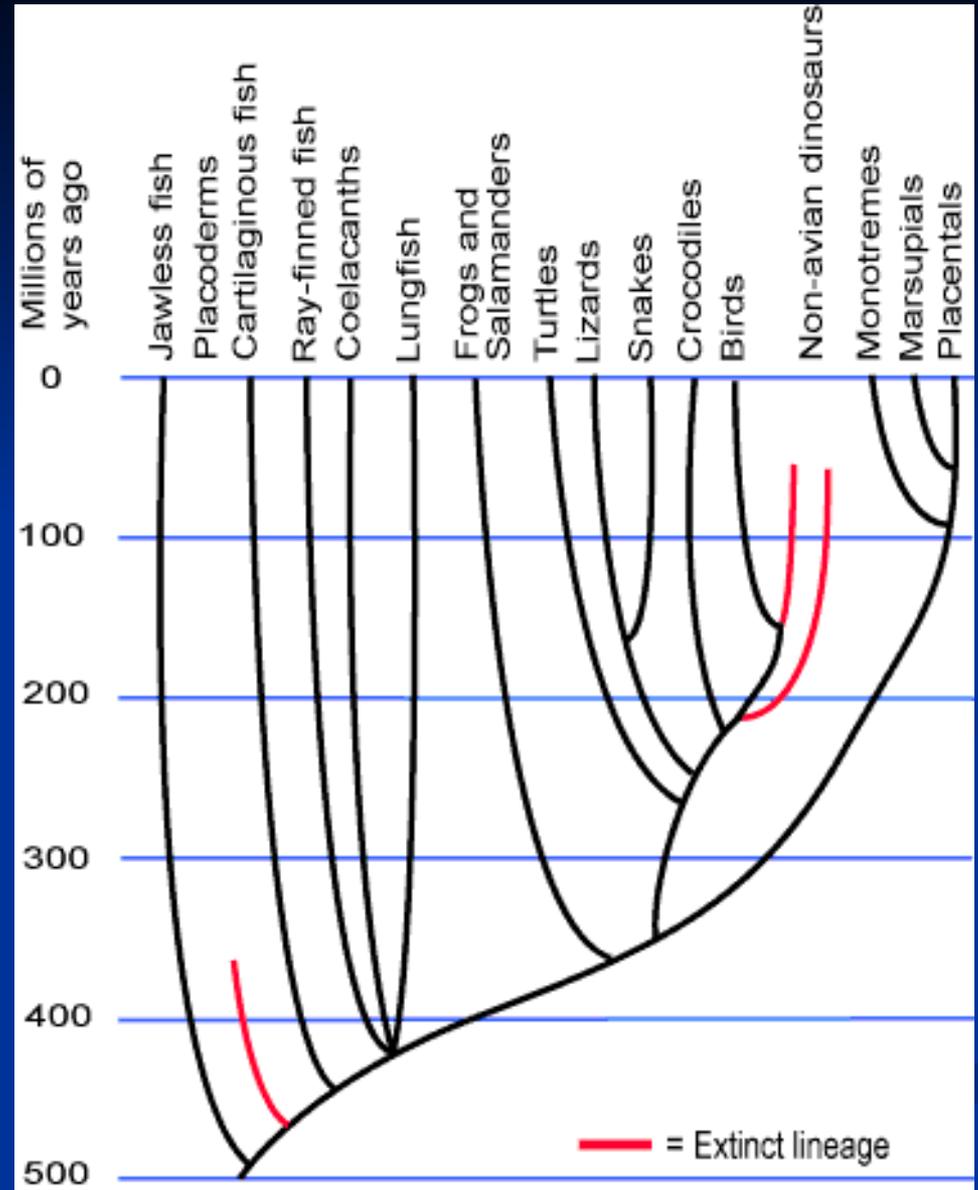
2. *Frogs*
3. *Toads*
4. *Lizards*
5. *Tortoises*



“I have not as yet noticed by far the most remarkable feature in the natural history of this archipelago; it is, that the different islands to a considerable extent are inhabited by a different set of beings. My attention was first called to this fact by the Vice-Governor, Mr. Lawson, declaring that the tortoises differed from the different islands, and that he could with certainty tell from which island any one was brought.”



Aristotle's Chain of Being



*The modern view. We focus on the lower realm of being!*

“When on board H.M.S. Beagle, as naturalist, I was much struck with certain facts in the distribution of the organic beings inhabiting South America, and in the geological relations of the present to the past inhabitants of that continent. These facts, as will be seen in the latter chapters of this volume, seemed to throw some light on the origin of species—that mystery of mysteries, as it has been called by one of our greatest philosophers. On my return home, it occurred to me, in 1837, that something might perhaps be made out on this question by patiently accumulating and reflecting on all sorts of facts which could possibly have any bearing on it. After five years' work I allowed myself to speculate on the subject, and drew up some short notes;”

Introduction, “The Origin of The Species”

ON  
THE ORIGIN OF SPECIES

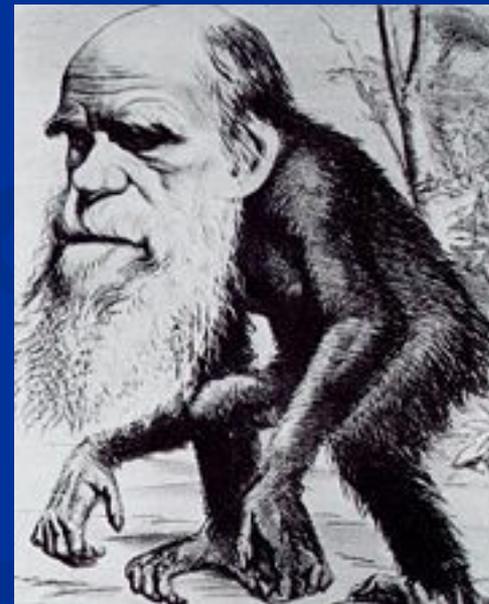
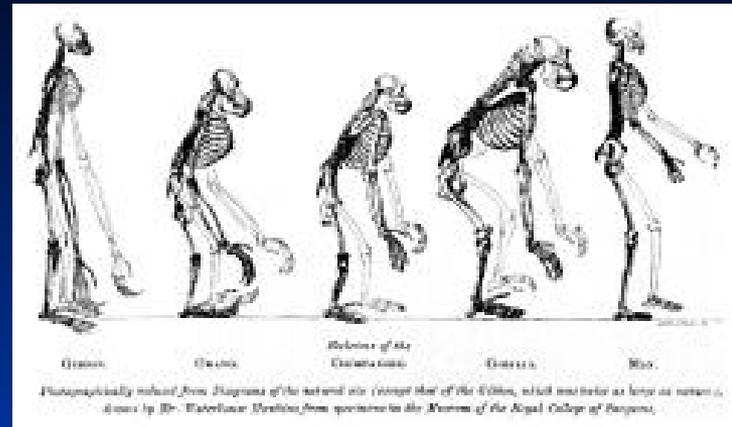
BY MEANS OF NATURAL SELECTION,

OR THE  
PRESERVATION OF FAVOURED RACES IN THE STRUGGLE  
FOR LIFE.

By CHARLES DARWIN, M.A.,  
FELLOW OF THE ROYAL, GEOLOGICAL, LINNEAN, ETC., SOCIETIES;  
AUTHOR OF "JOURNAL OF RESEARCHES DURING H. M. S. BEAGLE'S VOYAGE  
ROUND THE WORLD."

LONDON:  
JOHN MURRAY, ALBEMARLE STREET.  
1859.

*The right of Translation is reserved.*



[http://en.wikipedia.org/wiki/The\\_Origin\\_of\\_Species](http://en.wikipedia.org/wiki/The_Origin_of_Species)

# Natural Selection

- Predator-Prey
- Survival of the Fittest

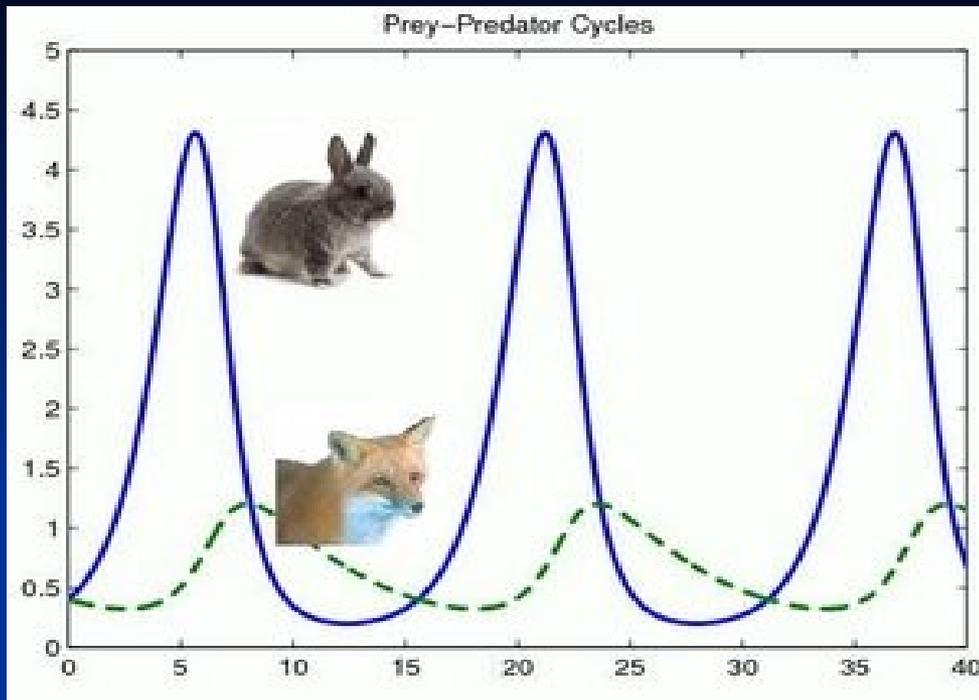


[http://www.defenders.org/wildlife\\_and\\_habitat/wildlife/wolf\\_gray.php](http://www.defenders.org/wildlife_and_habitat/wildlife/wolf_gray.php)



[http://www.essexwt.org.uk/leaflets/bee\\_gardening.htm](http://www.essexwt.org.uk/leaflets/bee_gardening.htm)

- Transmission of Traits



We behold the face of nature bright with gladness, we often see superabundance of food; we do not see or we forget that the birds which are idly singing round us mostly live on insects or seeds, and are thus constantly destroying life; or we forget how largely these songsters, or their eggs, or their nestlings, are destroyed by birds and beasts of prey; we do not always bear in mind, that, though food may be now superabundant, it is not so at all seasons of each recurring year.”

On discussing the struggle for existence in *The Origin of Species*