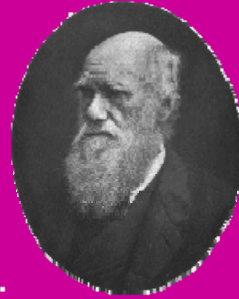
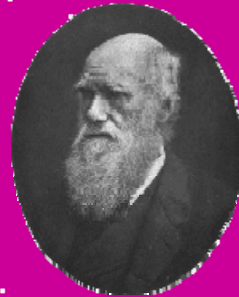


**BACKGROUND  
TO *ORIGIN OF  
SPECIES***



**PHIL 101  
Self, World, & God  
Dr. Jeff Johnson**

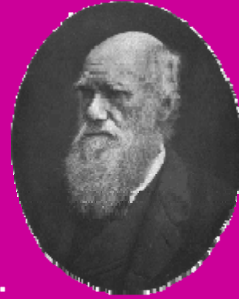
**My Cause**



- A conflict for my students
- What their culture teaches them
- What their professors teach them
- What is intellectual freedom?
- Lack of understanding about evolution
- Need to sympathetically understand those positions you most disagree with
- The conflict may be unreal

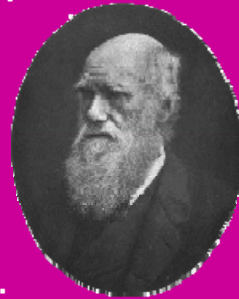
## What Darwin's Theory Isn't

- It isn't a theory about the origin of the universe
- It isn't a theory about the origin of life
- It isn't a theory that says that God does not exist
- It isn't "just a theory"
- The secular world view
- Understanding and misunderstanding science



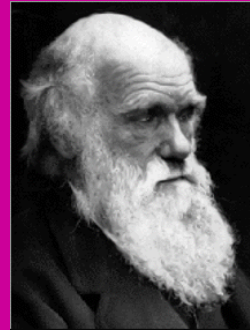
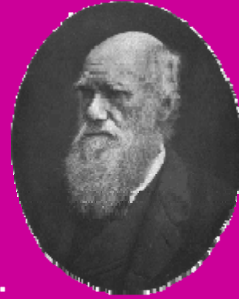
## God and Evolution

- Are religion and science compatible?
- Are theism and evolution compatible?
- The culture, again
- Fundamentalism
- Evolution in mainstream Christianity
- Science and academic theology
- Science as positive evidence for the existence of God
- Why couldn't evolution be God's chosen mechanism for creating life?



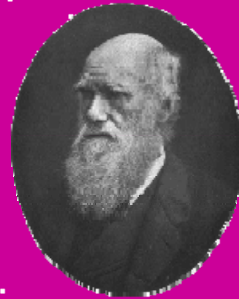
## Charles Darwin

- 1809-82
- Family
- College
- *The Beagle*
- Return to England
- Early research
- The idea
- 1844 paper
- Alfred Wallace's 1858 letter
- *Origin of Species* (1859)

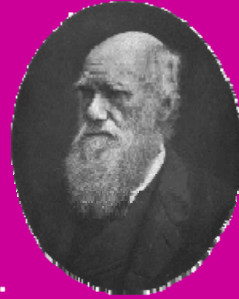


## The Beagle Trip

- Darwin the passenger
  - Darwin the observer
  - Darwin the cataloguer
  - Darwin the student
  - Darwin the theorist
- Darwin's questions
    - Why so much life?
    - Why so different?
    - Why the surprising similarities?

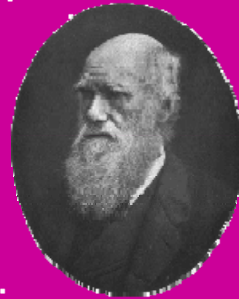


## Biogeography

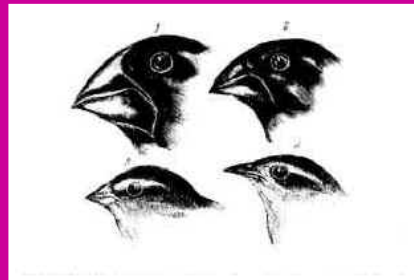


- Darwin invented the science
- Relationship between geographical considerations and flora and fauna
  - Similar geography - different life
  - Similar species - different environments
  - Subtle differences
  - What explains all this data?
- The Galapagos Islands

## Darwin's Finches

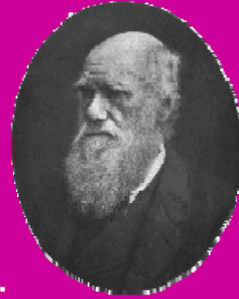


- Same species?
- Closely related species
- Markedly different beak structure
- Found on different islands
- Proximity of the islands
- What's going on?



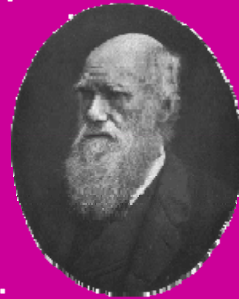
## Galapagos Tortoises

- San Diego Zoo
- Darwin's fascination
- Differences he noticed
- Account from the Governor
- What's going on here?

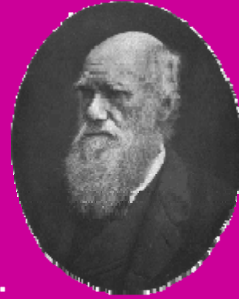


## Iguanas

- PBS documentary
- Iguanas on the mainland
- Marine iguanas on the Galapagos
- What's going on here?

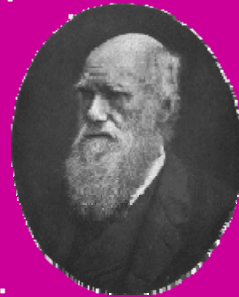


## Species Question



- What is a species?
  - Different breeds of dogs - same species
  - Very similar plants or animals - different species
  - Morphological differences
  - Interbreeding
  - Genetic analysis
- How do species arise? - *Origin of Species*
- The accepted pre-Darwin answer in biology

## Special Creation



- Different from "creation science"
- Different from "creationism"
- But, historically related to the above
- Biological hypothesis
- Assume the God of theism
- Each species is the product of "special creation" on the part of God
- Implications for change
- Implications for extinction