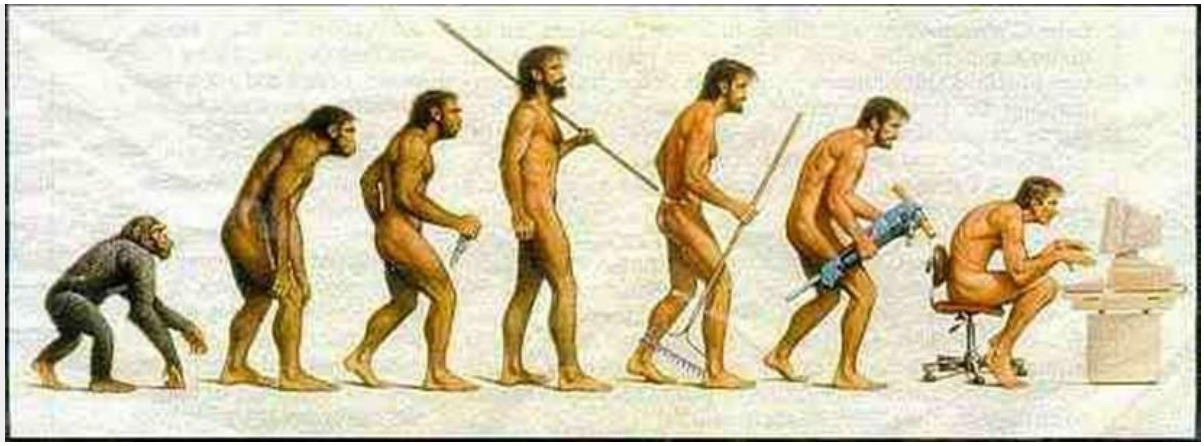
Evolution Practice 1

- Why does this picture inaccurately depict the evolution of modern humans (specifically in relatedness/ancestry to apes) (p.s. it's not the computer :D) What might be a better visual representation of evolution?

- 

Answer the following questions using information from the handouts, and examples from the LAB

1. Homologous structures are structures on different organisms that have a common evolutionary origin. How can you tell that these structures are modifications of the same ancestral structure?

- ***What characteristics do homologous structures have (structurally/developmentally) that provide evidence that two organisms did in fact share an ancestor?***
- ***What are two examples (sets) of homologous structures? How do you know they are homologous?***

2. Analogous structures do not provide evidence of common ancestry between two organisms.

- ***What are analogous structures?***
- ***Explain why analogous structures do not provide evidence of common ancestry.***
- ***What are 2 examples of analogous structures?***

3. Vestigial structures provide compelling evidence of evolution.

- ***What are vestigial structures?***
- ***How do they provide evidence of evolution?***
- ***What can you conclude about the ancestor of the organism with the vestigial structure?***
- ***What are two examples of vestigial structures?***