Natural Selection

* Differential Repoductive Success is natural selection
* If you have a higher fitness level, higher survivability
  + Higher fitness pass on genes, lower fitness die
* Evolution creates new alleials
* Gene pool is a combination of all genes in population
* Mutation and reproduction create variety
  + Adaptation is from these two
* Hardy Weinberg Equilibrium
  + 1848
    - p^2 + 2pq + q^2 = l
    - DD Dd dd
    - q^2 = .98
      * Q = .99
  + 1895
    - q^2 = .05
      * Q = .22
* Adaptation Process
  + Adapt to environment through natural selection to exploit niches
  + They work their way up the ecosystem
  + Species are created as traits are formed from adaptions to the enviroment