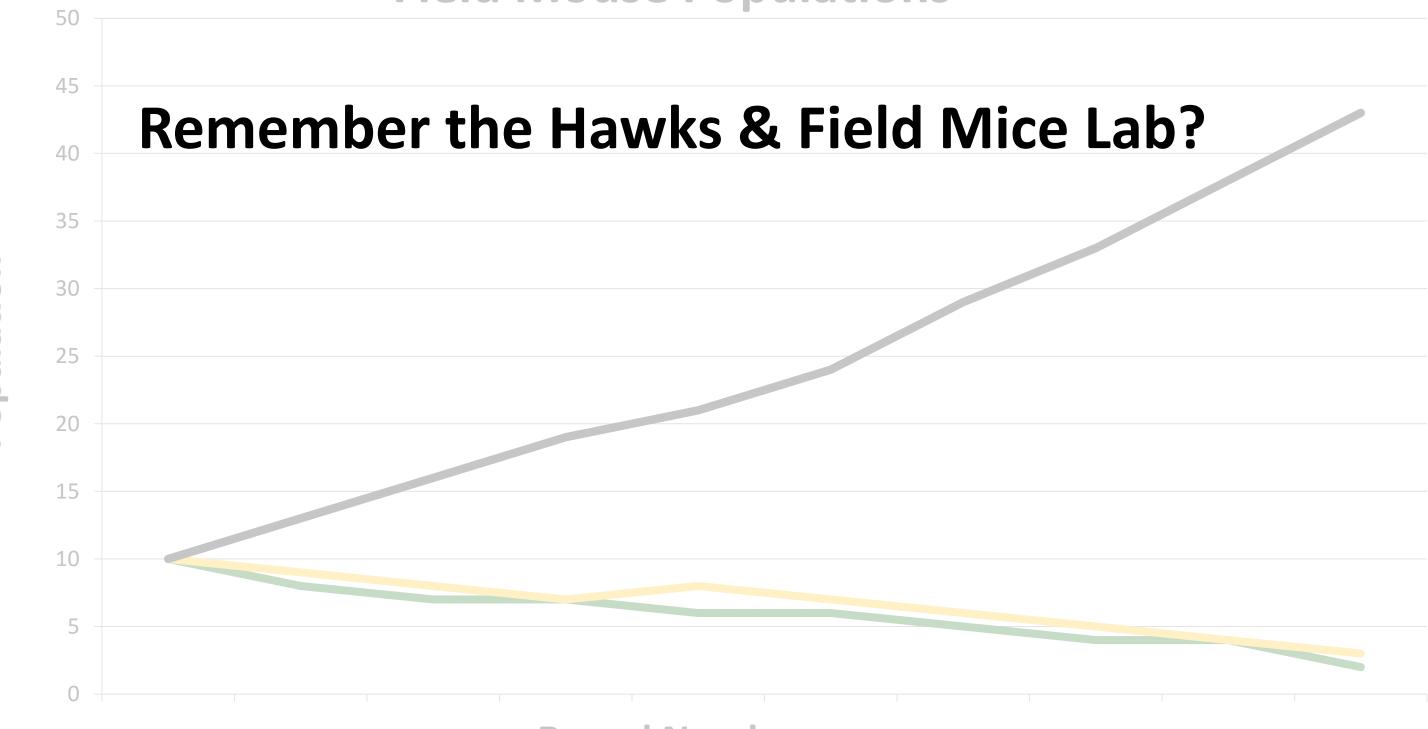
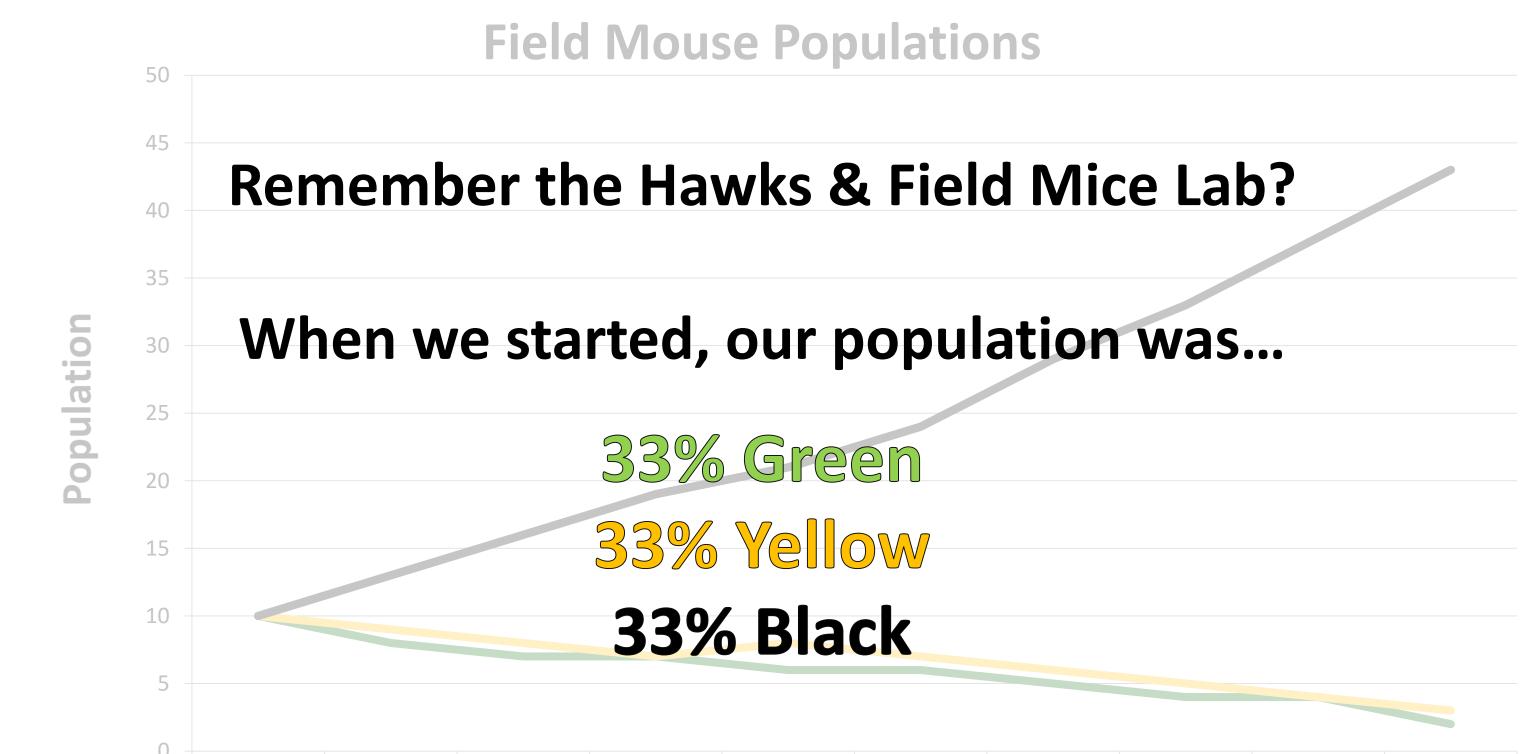


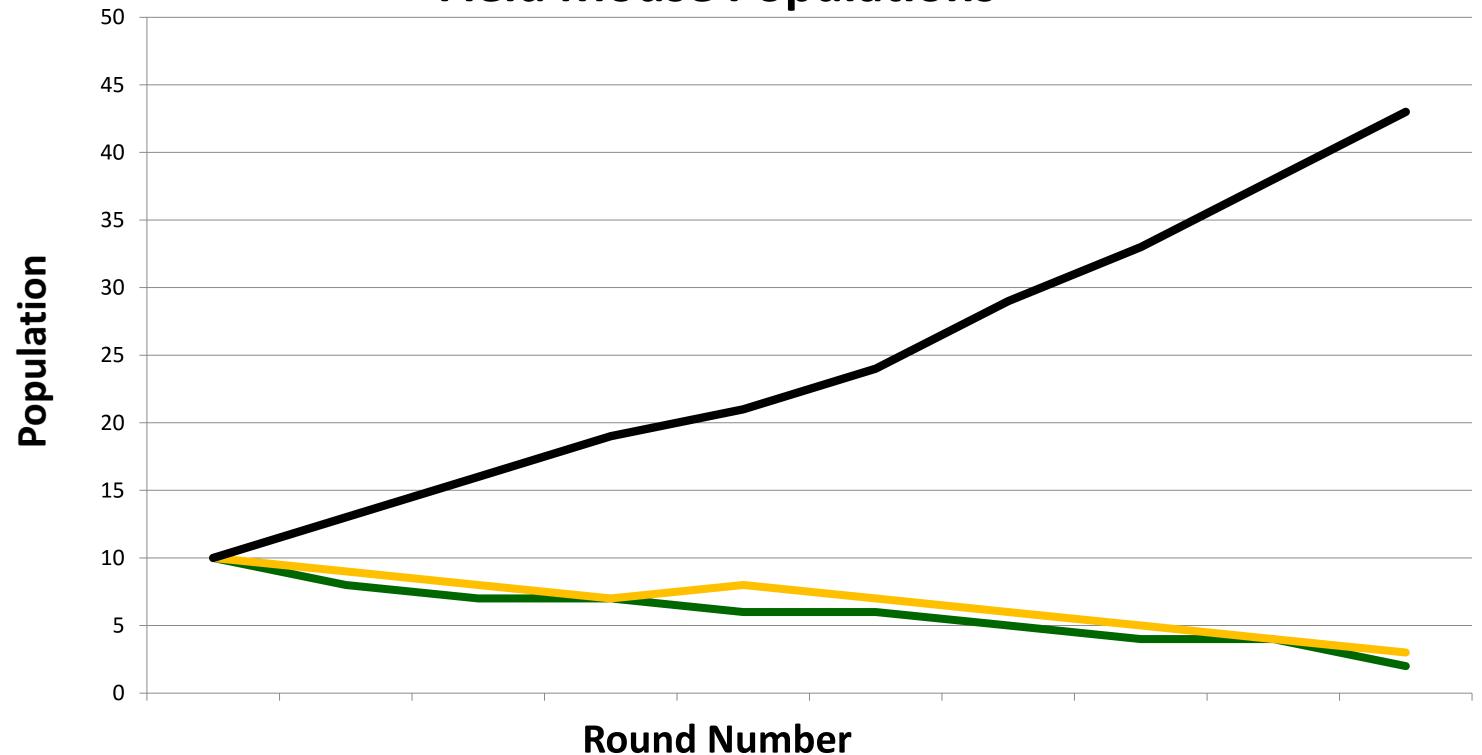
Field Mouse Populations

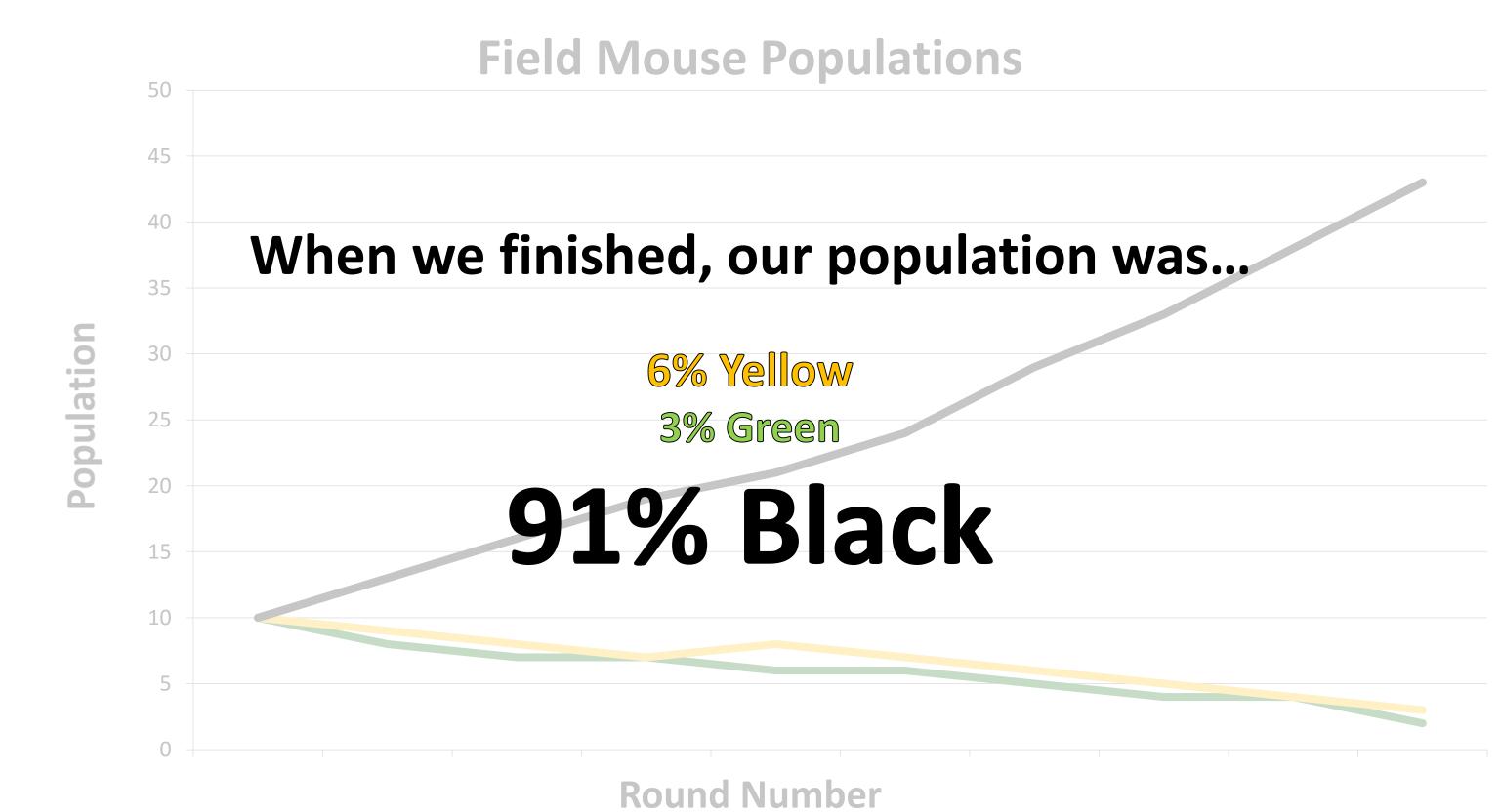


Round Number



Field Mouse Populations



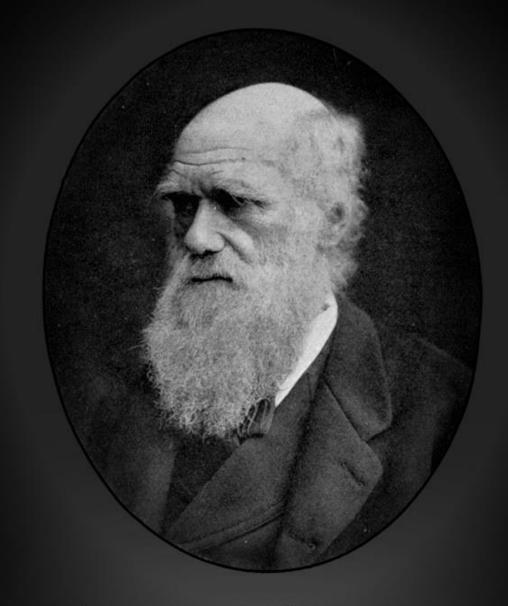


Round Number

Take out a blank sheet of paper. Label it Page 607: Darwin's Theory

Charles Darwin

1809 - 1882



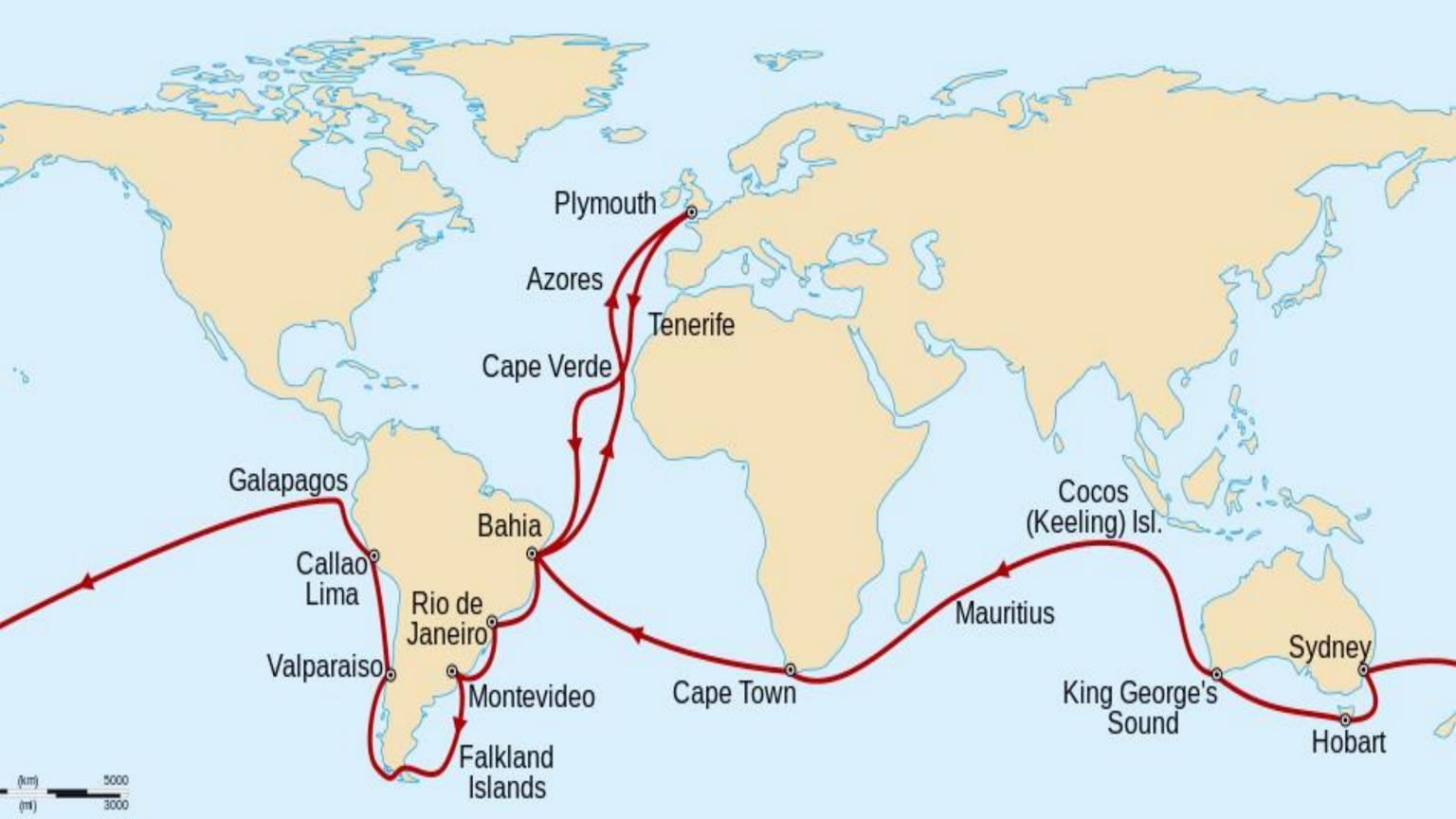
Charles Darwin

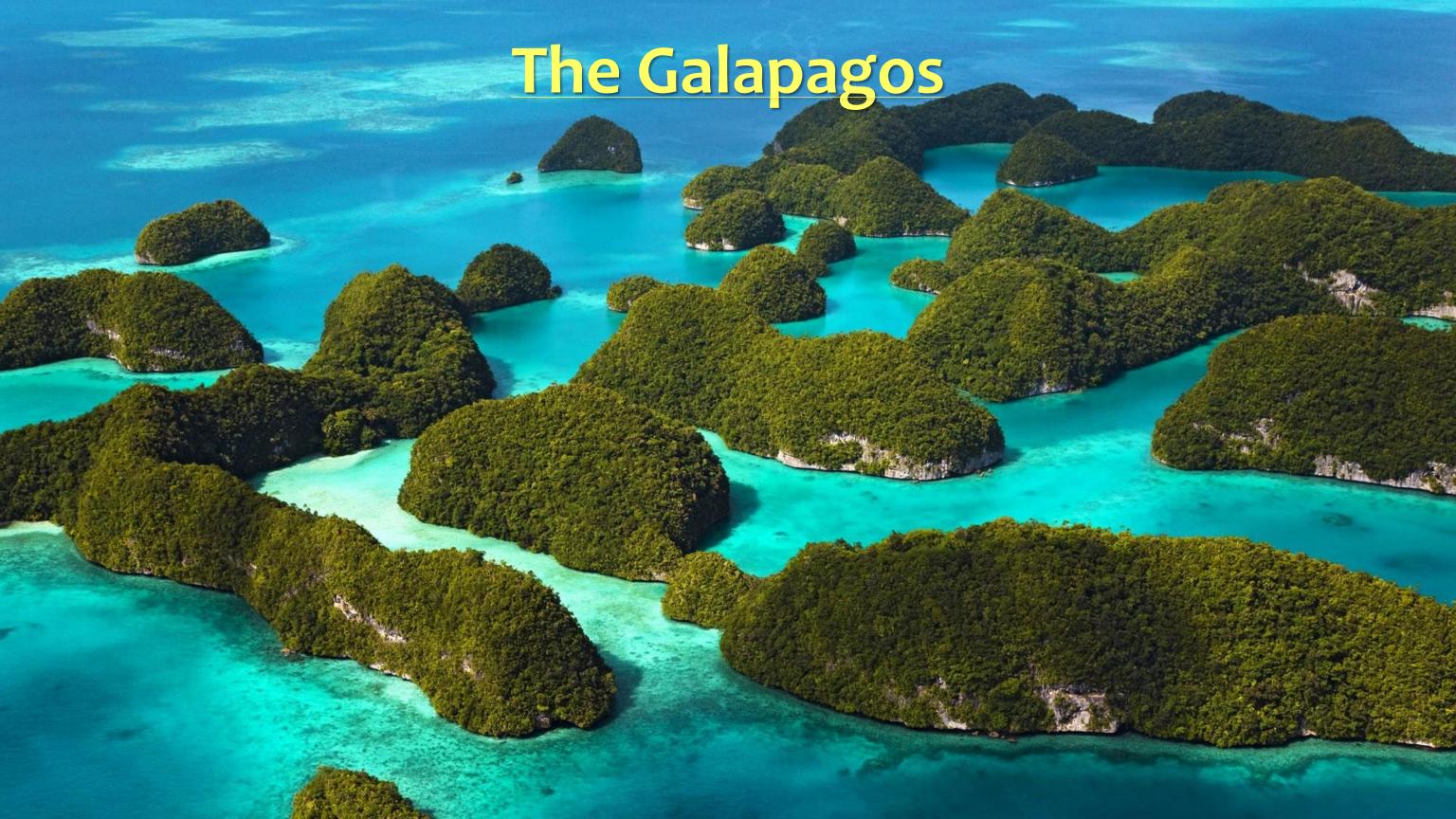
1809 - 1882

Darwin's Life:

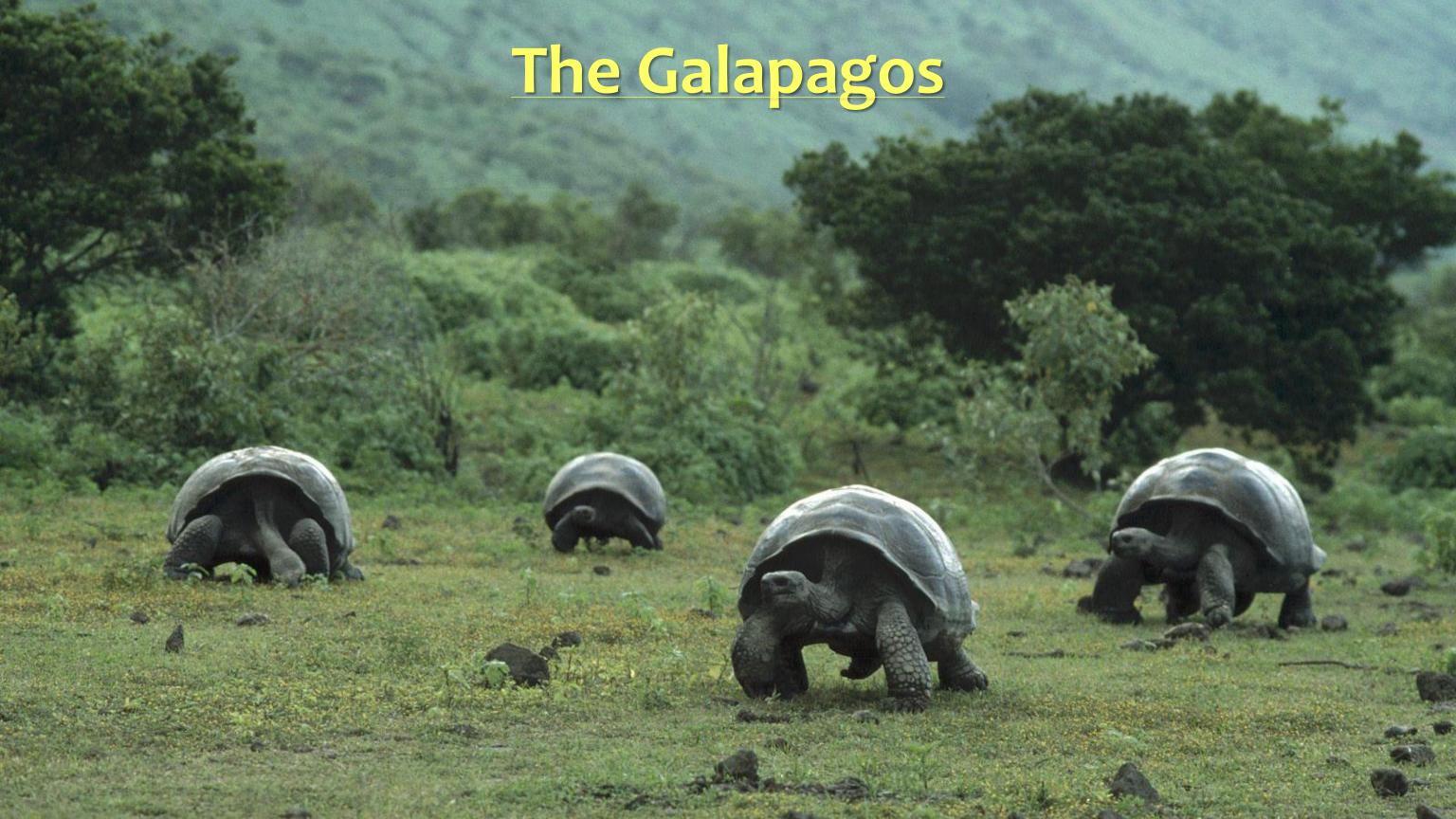
- From England
- Father wanted him to become a doctor
- Became a scientist instead
- Invented the Theory of Natural Selection

(became The Theory of Evolution)





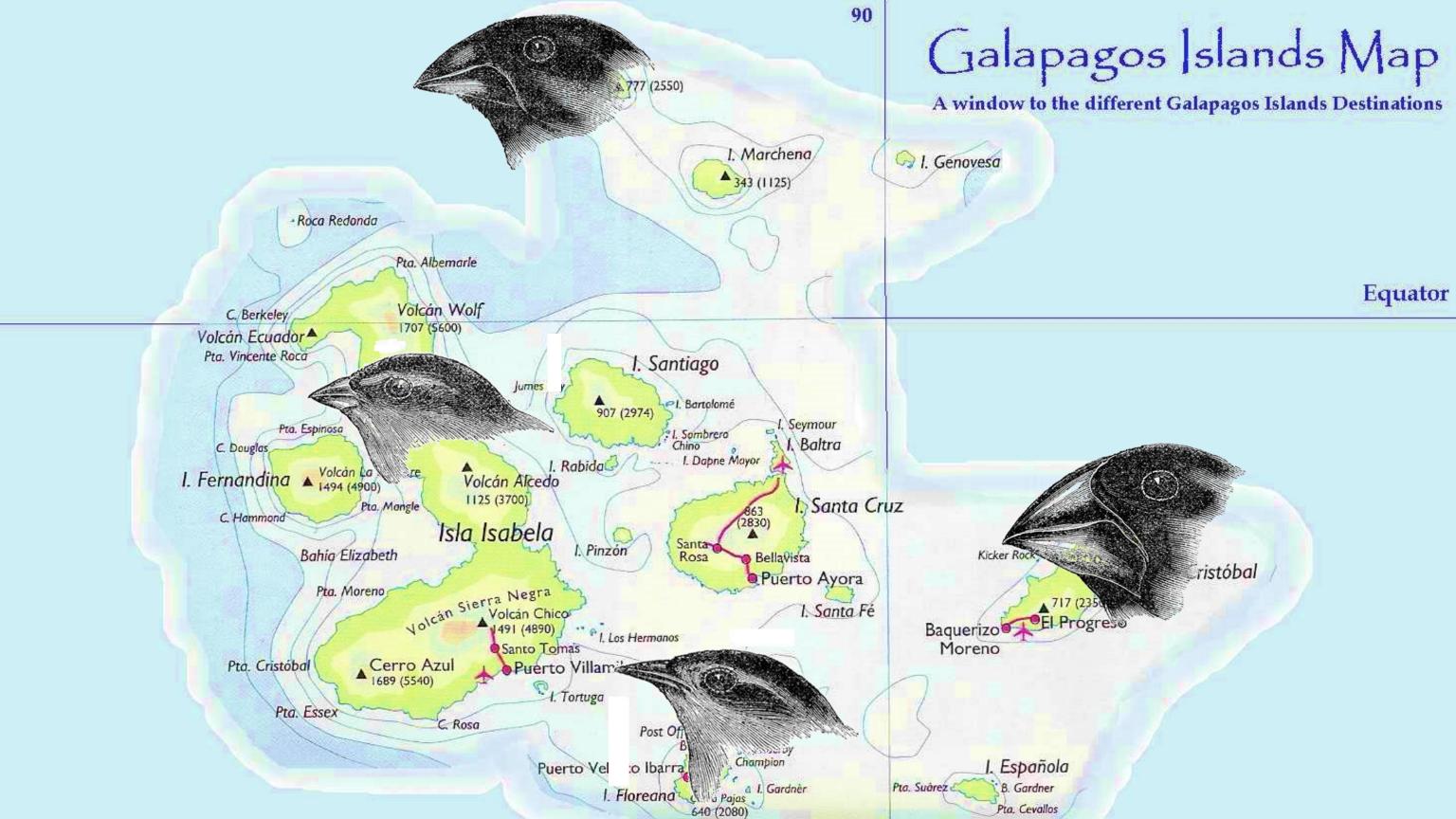


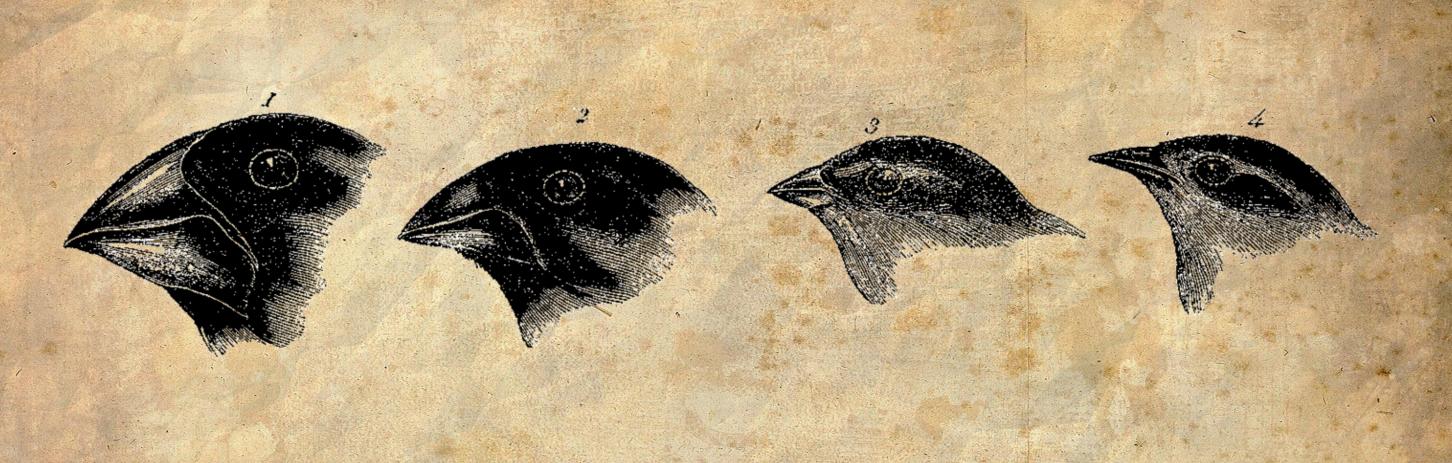






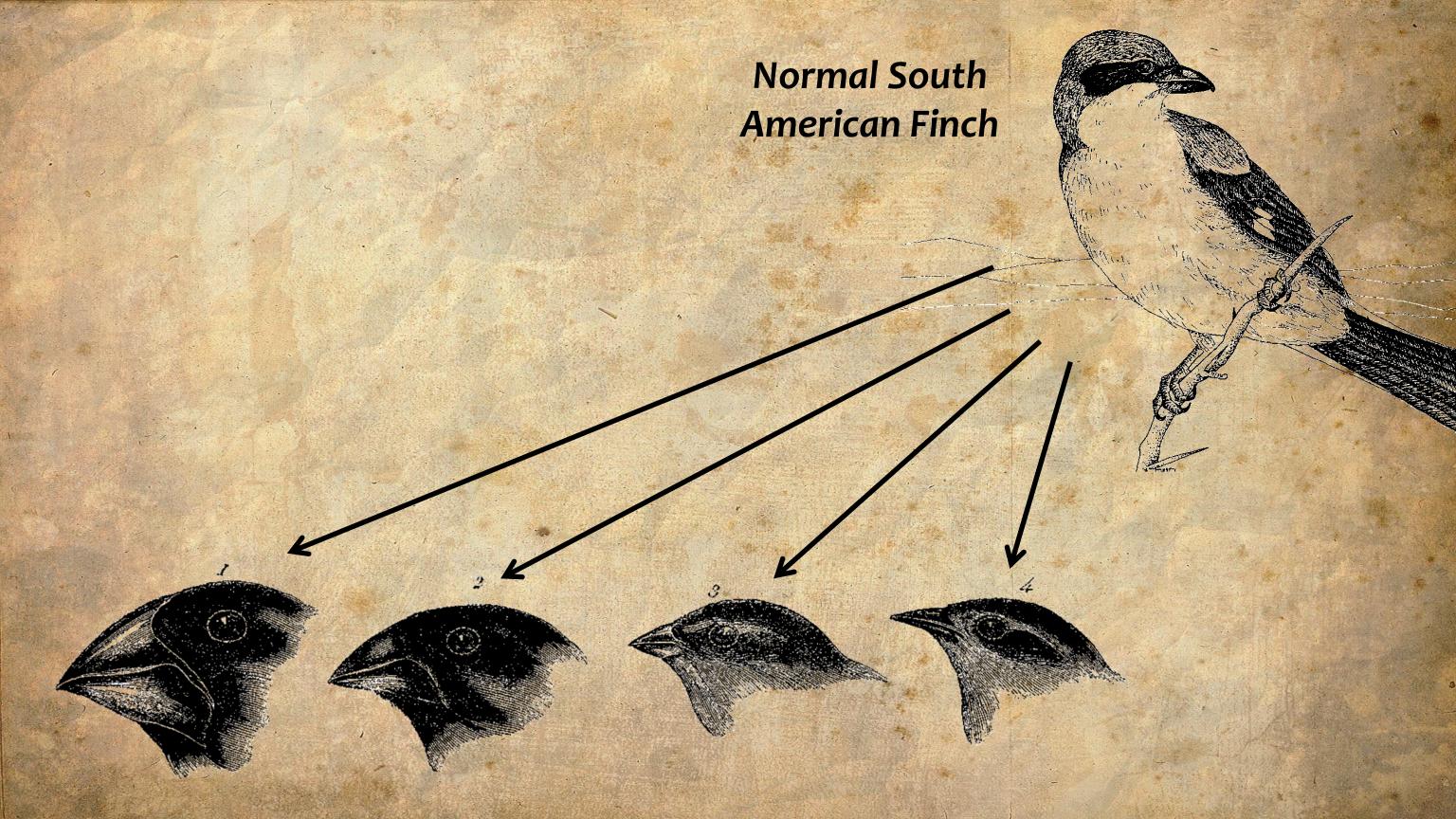


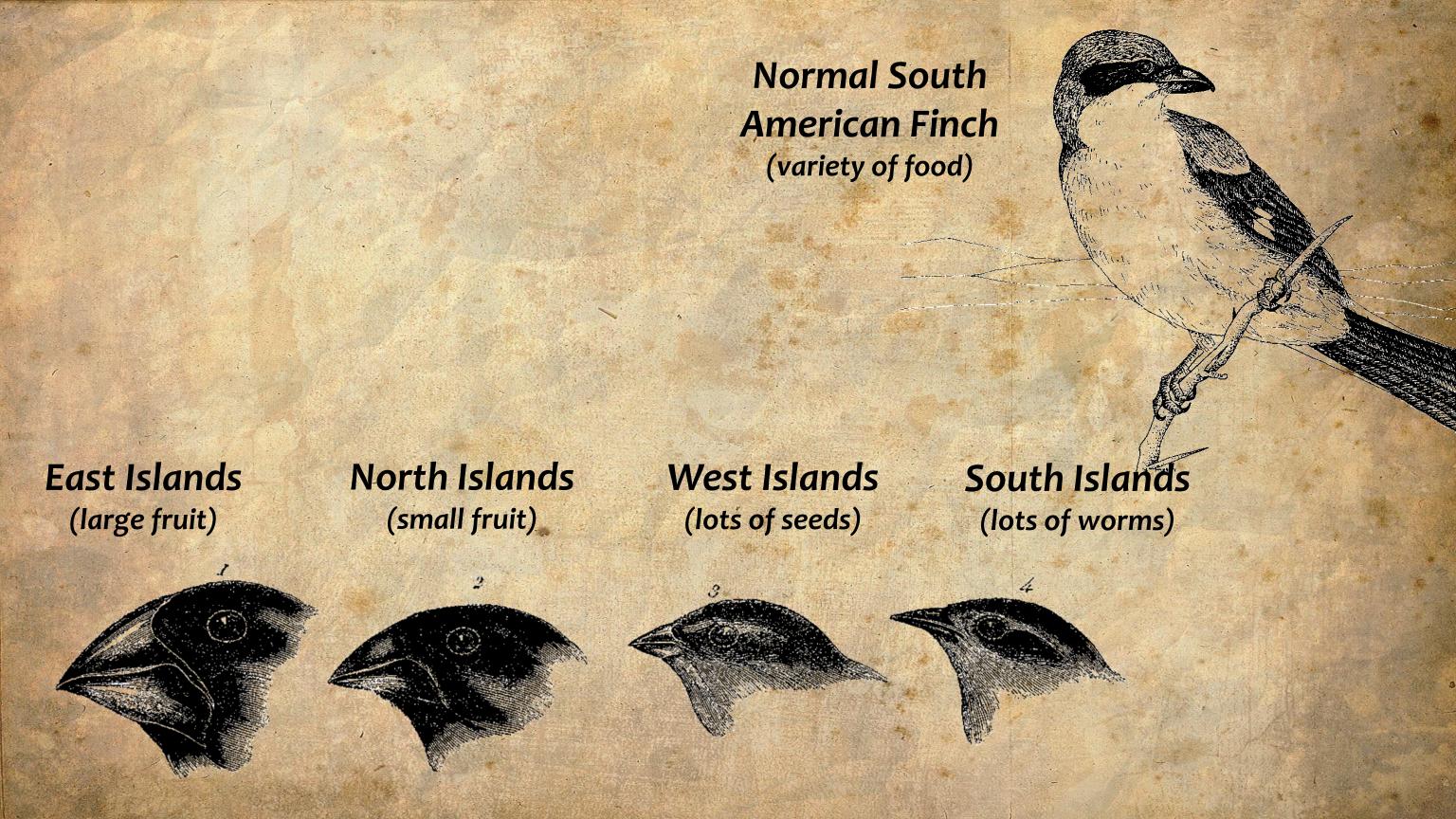




"Seeing this diversity in one small group of birds, one might think that from an original group of birds on these islands, one species had been taken and modified for different ends."

- Charles Darwin, 1845





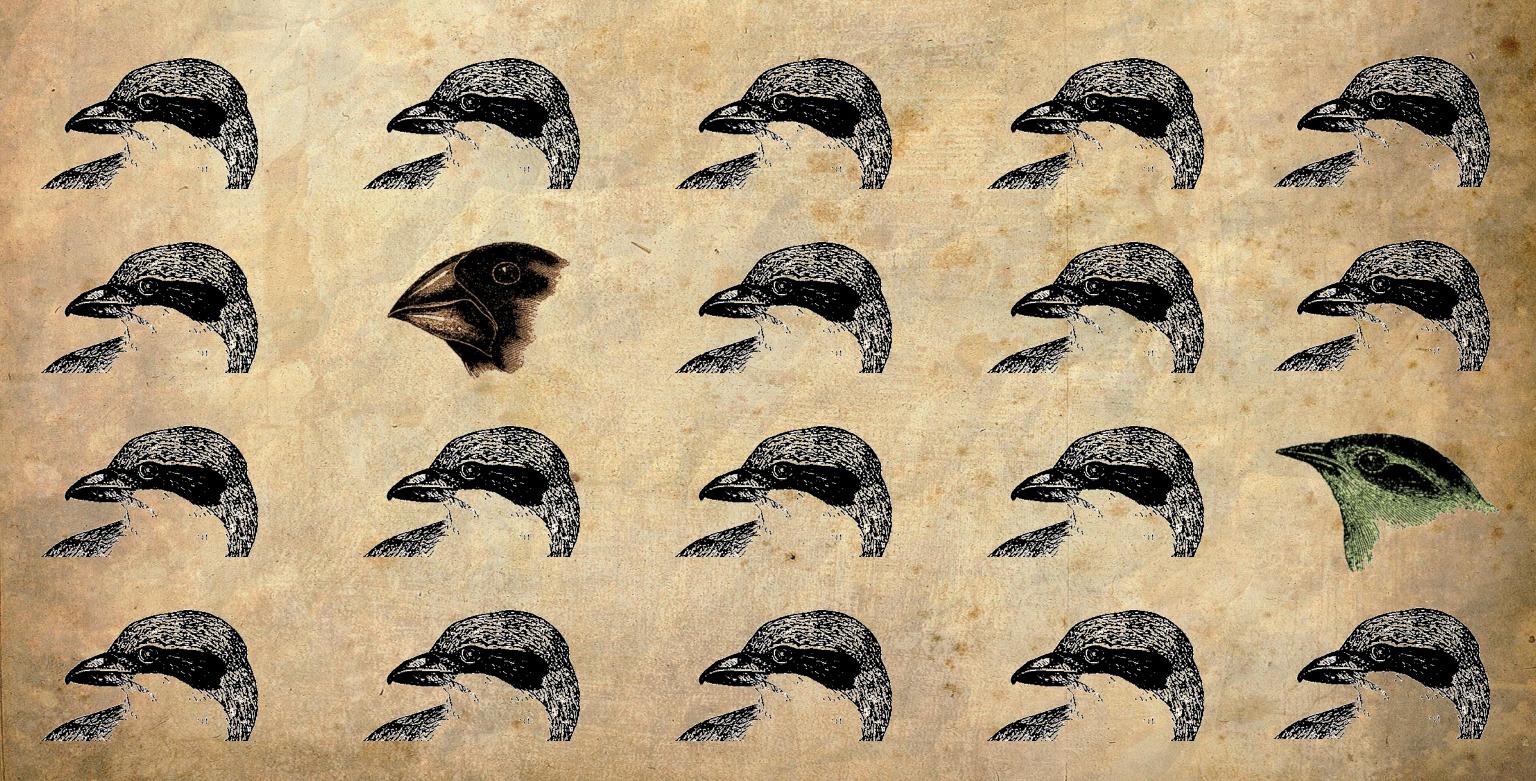
Year 1: A Flock of Birds Flies to the South Island



Year 2: They Start to Reproduce



Year 3: The South Island Has Lots of Worms



Year 4: Some of the Birds Die During the Winter



Year 5: Some Birds Reproduce During Summer



Year 6: There Is a Food Shortage



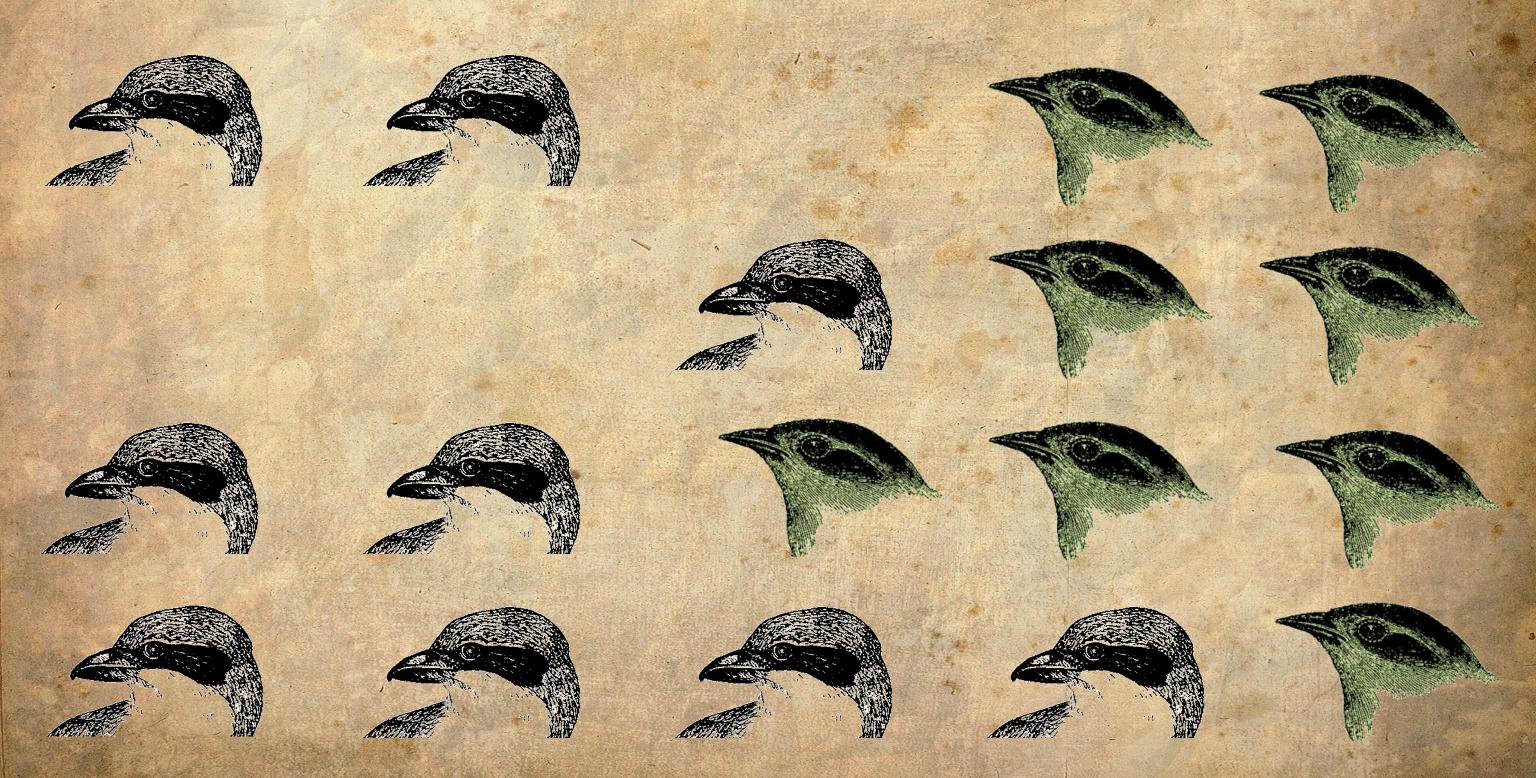
Year 7: Food Shortage Favors Skinny Beaks



Year 8: Skinny Beaks Have More Babies



Year 9: Skinny Beaks Begin to Take Over



Year 10: Skinny Beaks Multiply



Year 11: Skinny Beaks Multiply and Multiply



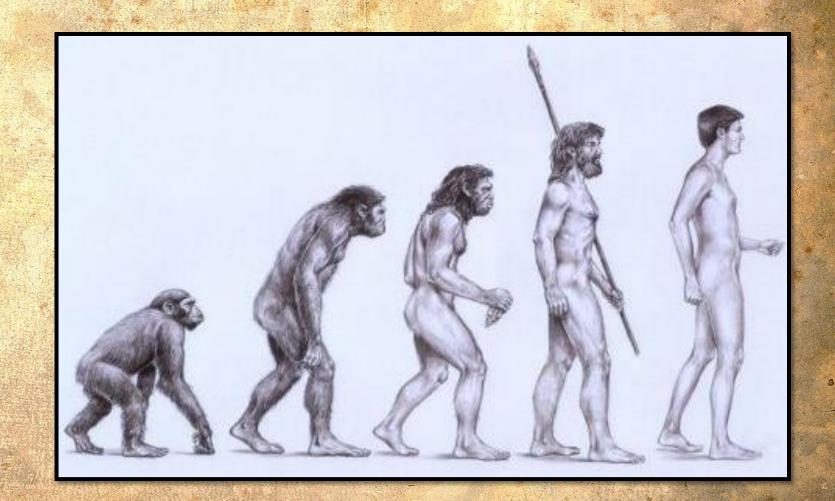
Year 12: Entire South Island Has Skinny Beaks



Darwin's Theory:

After Darwin's Voyage he came up with the Theory of Natural Selection, which said that "organisms that are better adapted to their environment are more likely to survive and reproduce."

He also used this theory to develop the Theory of Evolution. He thought that over time, variations would gradually add up and eventually form new species. And therefore, all life probably evolved from the same organisms.



Modern Interpretation:

evolution -

when changes in an organism's DNA (and therefore, its traits) occur over generations

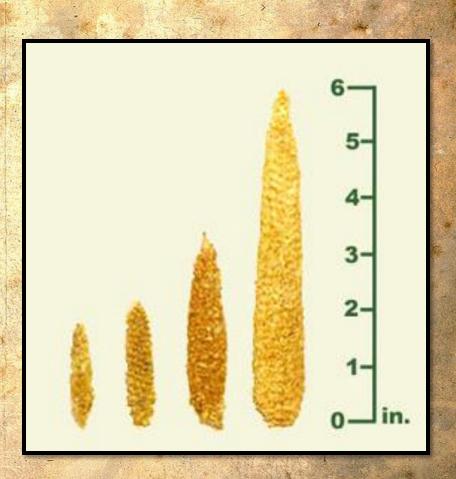
Modern Interpretation:

evolution -

when changes in an organism's DNA (and therefore, its traits) occur over generations

In order to have evolution, you need:

- 1. A competing population.
- 2. Genetic variation.
- 3. Inherited traits.



Modern Interpretation:

evolution -

when changes in an organism's DNA (and therefore, its traits) occur over generations (survival of the fittest!)

In order to have evolution, you need:

- 1. A competing population. (competition!)
- 2. Genetic variation. (variety!)
- 3. Inherited traits. (traits that are passed down!)

