

<https://classroom.github.com/a/PFxmHyv0>

The dataset `finches` is, as best I know, real data from Charles Darwin's adventures through the Galapagos islands. All measurements taken on finches are recorded in millimeters. You can find the CSV of the dataset at the following link:

<https://raw.githubusercontent.com/roualdes/data/master/finches.csv>

1. Read in the dataset using the function `read.csv`.
2. Make an appropriate `ggplot2` plot of the variable `taillength`. Name your plot `p`.
3. Assume the tail length measurements come from a Normal distribution and use the likelihood method together with `optim` to estimate the population mean tail length of finches from the Galapagos islands.
4. Add this estimate to your plot `p`.
5. Write a complete English sentence describing this estimate.
6. Using the bootstrap method, calculate a 90% confidence interval for the population mean tail length of finches from the Galapagos islands.
7. Add this confidence interval to your plot `p`.
8. Write a complete English sentence describing this confidence interval.