

Edps 590BAY
Fall 2022
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Homework 1
Due September 1, 2022

1. If you have not up-dated R and Rstudio with in the last year, up-date them both. If you have a PC and want a faster version of R, install Open R from microsoft (it's free).
 - (a) What is the name for the release of R that you up-dated (e.g., 5.6.1 is "Feather Spray"). This should be the 1st line in the R console window.
 - (b) Install of your favorite packages. Note that if you enter library() in the console **before** up-dating R, you can get a list of all your packages (makes installing in new version faster). We'll install what's needed for class as we go along.
2. (From Gelman) Conditional Probability: Approximately 1/125 of all births are fraternal twins and 1/300 of births are identical twins. Elvis Presley had a twin brother (who died at birth). What is the probability that Elvis was an identical twin? (approximate the probability of a boy or girl = 1/2).
3. Mathematical Models of Probabilities: Kruschke page 31, exercise 2.1
4. How Data Shifts Probability: Kruschke, page 31-32, exercise 2.2.