

- 1) Using the 'PhDPublications' dataset:
  - a) Select the first two rows of the dataframe and save it as an object called "new\_data"
  - b) Select the column 1 and 3 and save it as an object called "new\_data2".
  - c) Log transform the variable 'article' and save it as new column called 'log\_articles'.
  - d) Create a new dataframe with data restricted to females.
  - e) Calculate average of article published for each gender.
  - f) Create a boxplot using 'articles' and 'gender' as variables.
- 2)
  - a) Create a dataframe composed of two columns (x and y). X should contain the values 1,2,5,3,5,1 and Y should contain a,b,a,b,a, b. Make sure that Y is considered a factor. Save this dataframe in an object called "df".
  - b) Export "df" to your directory.