## XP Booster

## March 24

For this challenge you will be working in GROUPS OF TWO. You will be using the avocado dataset (avocado.csv). The variables you will be using are as follows:

- Total. Volume: The total volume of avocados sold at a location over several years.
- AveragePrice: The average price of an avocado sold at each location.
- type: whether avocados are conventional or organic type.
- region: The region that a given store is located
- 1. Visualize the distribution for total volume of avocados sold. Be sure to colour your distribution 'green'. Draw and describe the distribution below. What is strange here?
- 2. Visualize the distribution for total volume of *conventional* avocados sold. Draw and describe in detail below.
- 3. Using a pairwise boxplot, compare the total volume of avocados sold in California vs. Boston.
- 4. Using a pairwise boxplot, compare the average price of avocados sold in California vs. Boston.

## Solution: ### Load Packages library (ggplot2) library(tidyverse) ### Load data avo <- read.csv('/data/datasets/avo.csv')</pre> #### Visualize distribution for avocado total volume in California (What is strange here?) dat <- avo %>% filter (region='California') hist (dat \$Total. Volume, col='green', xlab='Total volume sold', main='Distribution for total volume sold') #### Visualize distribution for avocado total volume in California (What is strange here?) dat <- avo %% filter (region='California') %% filter (type='conventional') hist (dat \$Total. Volume, col='green', xlab='Total volume sold', main='Distribution for total volume sold for conventional avocados') #### Compare conventional avocados in California to Boston cali <-- avo %% filter (region == 'California') %% filter (type='conventional') bost <- avo %% filter (region == 'Boston') %% filter (type=='conventional') boxplot(cali\$Total.Volume, bost\$Total.Volume) #### Compare conventional avocados in California to Boston 2 cali <- avo %% filter(region == 'California') %% filter(type='conventional') bost <- avo %% filter(region = 'Boston') %% filter(type='conventional') boxplot (cali \$AveragePrice, bost \$AveragePrice)