

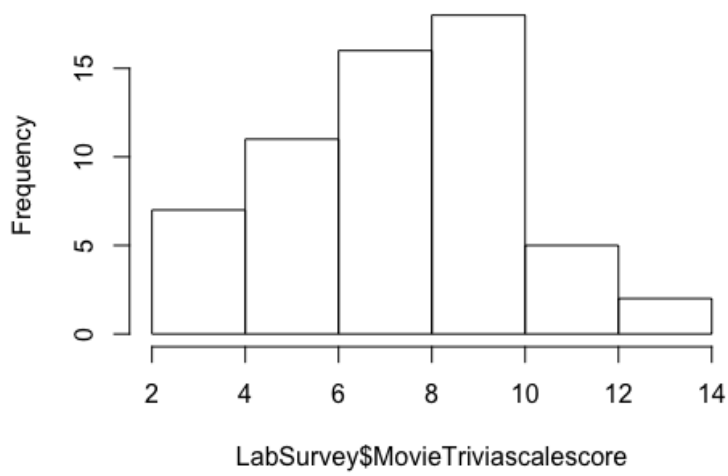
- 1.) I think the first one being the MovieTrivia will be a normal distribution, while the StatsEfficacy would be a Platykurtic Distribution. The reason being from looking at the numbers of how they might look like when represented on a histogram. The 1st seems to have high numbers, but I could be wrong, and it could be a negative skewed distribution. The 2nd seems to me to be a platykurtic distribution because of the numbers being so close to one another. Again, this is just what I think and am speculating.
- 2.) They are in order from before and after the breaks. Using 15 for MovieTriviaScaleScore and 4 for STATSEFFICACYscalescore. The histogram photos are below.
- 3.) No, they did not come to pass, for movietrivascalescore it was almost as if it was a normal curve but stops and reappears at the right side of the distribution. As for the STATSEFFICACYscalescore it came to be a positive skew distribution.
- 4.) The score was 8 for movie trivia and 2 for stats efficacy to the 50th percentile. They stayed the same as the median.
- 5.)

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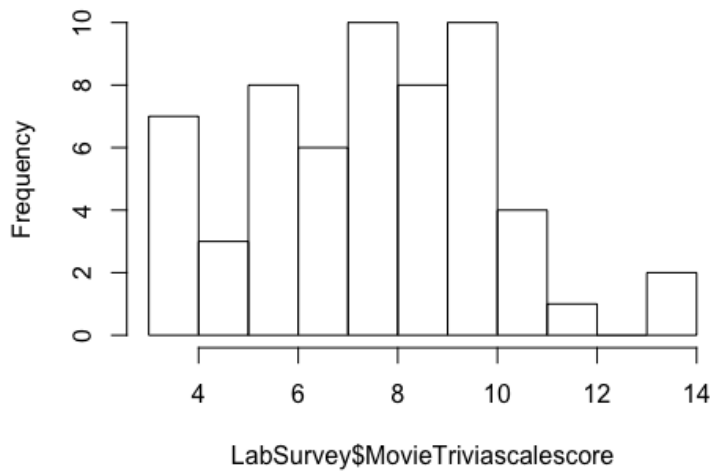
Console Terminal x
~/Dropbox/PSYC203_Spring_2019/ >
> LabSurvey$STATSEFFICACYscalescore <- with(LabSurvey, (B1+B2+B3+B4+B5+B6+B7+B8+B9+B10+B11+B12+B13)/13)
> View(LabSurvey) #We can see the new variable was added to my data set
> stat.desc(LabSurvey$MovieTriviascalescore)
      nbr.val  nbr.null  nbr.na    min    max    range    sum    median    mean    SE.mean  CI.mean.0.95
59.00000000  0.0000000  0.0000000  3.0000000  14.0000000  11.0000000  467.0000000  8.0000000  7.9152542  0.3272971  0.6551563
      var    std.dev    coef.var
6.3202805  2.5140168  0.3176167
> hist(LabSurvey$MovieTriviascalescore)
> hist(LabSurvey$MovieTriviascalescore, breaks = 15)
> hist(LabSurvey$MovieTriviascalescore, breaks = 16)
> hist(LabSurvey$MovieTriviascalescore, breaks = 15)
> hist(LabSurvey$MovieTriviascalescore)
> hist(LabSurvey$MovieTriviascalescore, breaks = 15)
> hist(LabSurvey$MovieTriviascalescore, breaks = 26)
> hist(LabSurvey$MovieTriviascalescore, breaks = 18)
> hist(LabSurvey$MovieTriviascalescore)
> hist(LabSurvey$MovieTriviascalescore, breaks = 15)
> hist(LabSurvey$MovieTriviascalescore, breaks = 16)
> hist(LabSurvey$STATSEFFICACYscalescore)
> stat.desc(LabSurvey$MovieTriviascalescore)
      nbr.val  nbr.null  nbr.na    min    max    range    sum    median    mean    SE.mean  CI.mean.0.95
59.00000000  0.0000000  0.0000000  3.0000000  14.0000000  11.0000000  467.0000000  8.0000000  7.9152542  0.3272971  0.6551563
      var    std.dev    coef.var
6.3202805  2.5140168  0.3176167
> stat.desc(LabSurvey$STATSEFFICACYscalescore)
      nbr.val  nbr.null  nbr.na    min    max    range    sum    median    mean    SE.mean  CI.mean.0.95
59.00000000  0.0000000  0.0000000  1.46153846  3.15384615  1.69230769  123.38461538  2.00000000  2.09126467  0.04621055  0.09250048
      var    std.dev    coef.var
0.12598951  0.35495001  0.16972984
> hist(LabSurvey$STATSEFFICACYscalescore, breaks = 4)
> stat.desc(LabSurvey$MovieTriviascalescore)
      nbr.val  nbr.null  nbr.na    min    max    range    sum    median    mean    SE.mean  CI.mean.0.95
59.00000000  0.0000000  0.0000000  3.0000000  14.0000000  11.0000000  467.0000000  8.0000000  7.9152542  0.3272971  0.6551563
      var    std.dev    coef.var
6.3202805  2.5140168  0.3176167
> median(LabSurvey$MovieTriviascalescore, na.rm = TRUE) #we add the na.rm = TRUE argument to ensure that any missing values are removed. If you don't do this
you will get an error or no values
[1] 8
> quantile(LabSurvey$MovieTriviascalescore, na.rm = TRUE)
 0% 25% 50% 75% 100%
 3  6  8 10 14
> stat.desc(LabSurvey$STATSEFFICACYscalescore)
      nbr.val  nbr.null  nbr.na    min    max    range    sum    median    mean    SE.mean  CI.mean.0.95
59.00000000  0.0000000  0.0000000  1.46153846  3.15384615  1.69230769  123.38461538  2.00000000  2.09126467  0.04621055  0.09250048
      var    std.dev    coef.var
0.12598951  0.35495001  0.16972984
> median(LabSurvey$STATSEFFICACYscalescore, na.rm = TRUE)
[1] 2
> quantile(LabSurvey$STATSEFFICACYscalescore, na.rm = TRUE)
 0% 25% 50% 75% 100%
1.461538 1.846154 2.000000 2.230769 3.153846
>

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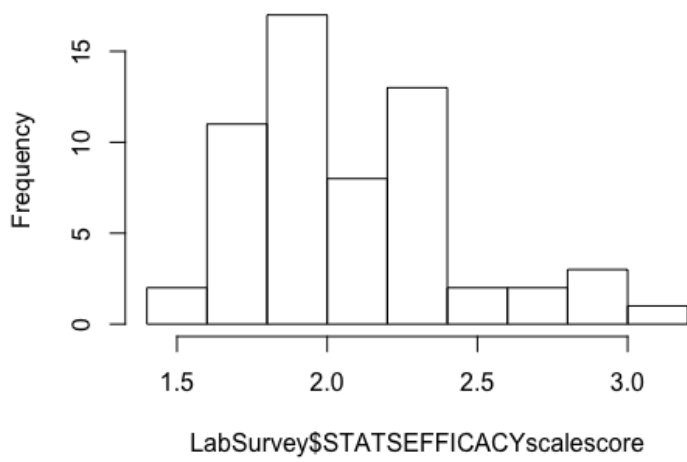
Histogram of LabSurvey\$MovieTriviascalescore



Histogram of LabSurvey\$MovieTriviascalescore



Histogram of LabSurvey\$STATSEFFICACYscalesco



Histogram of LabSurvey\$STATSEFFICACYscalesco

