

Code for Project

Boxplot For Rotten Tomatoes Animated Series Rating (omitting NA):

```
> library(readxl)
> Rotten_AN <- read_excel("C:/Users/nguye/Downloads/Marvel_TV_IMDB_RottenToma
toes_Reviews.xlsx",
+   sheet = "Rotten Tomatoes Animated TV")
New names:
* ` ` -> ...5
> view(Rotten_AN)
> RAN_C <- as.numeric(as.character(Rotten_AN$`Critic Score (out of 100)`))
Warning message:
NAs introduced by coercion
> RAN_C
 [1] NA NA NA NA NA NA NA NA NA NA NA NA NA
[13] 85 NA NA NA NA NA NA 50 NA NA 80 NA 100
[25] 80 NA NA 50 100 NA NA NA NA
> RAN_A <- as.numeric(as.character(Rotten_AN$`Audience Score (out of 100)`))
Warning message:
NAs introduced by coercion
> na.omit(RAN_C)
 [1] 85 50 80 100 80 50 100
attr(,"na.action")
 [1] 1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18
[18] 20 21 23 26 29 30 31 32
attr(,"class")
[1] "omit"
> RAN_C
 [1] NA NA NA NA NA NA NA NA NA NA NA NA NA
[13] 85 NA NA NA NA NA NA 50 NA NA 80 NA 100
[25] 80 NA NA 50 100 NA NA NA NA
> boxplot(RAN_C)
> boxplot(RAN_C, RAN_A)
> boxplot(RAN_C, RAN_A, main = 'Rotten Tomatoes Animated Series Audience Vs.
Critic Score', names = c('Critic', 'Audience'), horizontal = TRUE, xlab = 'Sc
ores(out of 100', ylab = 'Type of Scores')
```

Boxplot For Rotten Tomato Live Action Series:

```
boxplot(Rotten_LA$`Critic Score (out of 100)`,Rotten_LA$`Audience Score (out
of 100)`, main = 'Rotten Tomatoes Live Action Audience Vs. Critic Score',
names = c('Critic', 'Audience'), horizontal = TRUE, xlab = 'Scores(out of
100', ylab = 'Type of Scores')
```

Difference in Rotten Tomato Scores for Live Action from Critic Score to Audience Score:

```
> diffRottenLA <- (Rotten_LA$`Critic Score (out of 100)` - Rotten_LA$`Audience
Score (out of 100)`)
> barplot(diffRottenLA, main = 'Difference in Rotten Tomato Critic Score and
Audience Score', xlab = 'TV Series', ylab = 'Difference', names.arg = c(Rotte
n_LA$`TV Series`), cex.names = 0.75)
```

```
> barplot(abs(diffRottenLA), main = 'Difference in Rotten Tomato Critic Score
and Audience Score', xlab = 'TV Series', ylab = 'Difference', names.arg = c
(Rotten_LA$`TV Series`), cex.names = 0.75)

stem(diffRottenLA, scale = 2)
```

For Average of IMDb and Rotten Tomatoes:

```
> avgAN <- as.numeric(as.character(AVG$`Total AVG`))
Warning message:
NAs introduced by coercion
> summary(avgAN)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
55.50   72.00   76.50   77.51   85.75   94.33
   NA's
    17

> avgLA <- (IMDbLA100 + Rotten_LA$`Critic Score (out of 100)` + Rotten_LA$`Au
dience Score (out of 100)`)/3
> avgLA
 [1] 83.33333 90.00000 80.33333 77.66667 86.00000
 [6] 59.00000 75.00000 35.33333 74.33333 76.66667
[11] 77.00000 86.00000 82.00000      NA      NA
[16]      NA
> summary(avgLA)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
35.33   75.00   77.67   75.59   83.33   90.00
   NA's
    3
```

For IMDb and Rotten Tomatoes Review by Year

```
> plot(IMDb_LA$`Avg Reviews out of 10`, y = IMDb_LA$`Begin Year`, ylab = 'Ini
tial Airing Year', xlab = "Reviews (out of 10)", main = "IMDb Marvel Live Act
ion Series Reviews")
> abline(lm(IMDb_LA$`Begin Year` ~ IMDb_LA$`Avg Reviews out of 10`))

plot(IMDb_AN$`Begin Year` ~ IMDb_AN$`Avg Reviews out of 10`, ylab = 'Initial
Airing Year', xlab = "Reviews (out of 10)", main = "IMDb Marvel Animated Seri
es Reviews")
> abline(lm(IMDb_AN$`Begin Year` ~ IMDb_AN$`Avg Reviews out of 10`))
```