pokemon-statistical-analysis

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```
library(readr)
```

```
X29_Pokemon <- read_csv("29. Pokemon.csv")
```

```
## Rows: 1025 Columns: 24
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr  (7): Name, Type_1, Type_2, Egg_Group_1, Egg_Group_2, Generation, Past_Type
## dbl (13): id, Height(m), Weight{kg}, HP, Attack, Defense, Sp.Atk, Sp.Def, Sp...
## lgl  (4): Is_Legendary, Is_Mythical, Is_Baby, Is_Pseudo_Legendary
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
Legendarios <- subset(X29_Pokemon, Is_Legendary == TRUE)
```

```
no_legendarios <- subset(X29_Pokemon, Is_Legendary == FALSE)
```

```
print(Legendarios)
```

```
## # A tibble: 71 x 24
##       id Name  `Height(m)` `Weight{kg}`    HP Attack Defense Sp.Atk Sp.Def Speed
##    <dbl> <chr>       <dbl>        <dbl> <dbl>  <dbl>   <dbl>  <dbl>  <dbl> <dbl>
##  1   144 Arti~         1.7         55.4    90     85     100     95    125    85
##  2   145 Zapd~         1.6         52.6    90     90      85    125     90   100
##  3   146 Molt~         2           60      90    100      90    125     85    90
##  4   150 Mewt~         2          122     106    110      90    154     90   130
##  5   243 Raik~         1.9        178      90     85      75    115    100   115
##  6   244 Entei         2.1        198     115    115      85     90     75   100
##  7   245 Suic~         2          187     100     75     115     90    115    85
##  8   249 Lugia         5.2        216     106     90     130     90    154   110
##  9   250 Ho-oh         3.8        199     106    130      90    110    154    90
## 10   377 Regi~         1.7        230      80    100     200     50    100    50
## # i 61 more rows
## # i 14 more variables: Type_1 <chr>, Type_2 <chr>, Is_Legendary <lgl>,
## #   Is_Mythical <lgl>, Egg_Group_1 <chr>, Egg_Group_2 <chr>, Generation <chr>,
## #   Capture_Rate <dbl>, Base_Happiness <dbl>, Is_Baby <lgl>, Egg_Cycles <dbl>,
## #   Past_Type <chr>, Is_Pseudo_Legendary <lgl>, Total_Stats <dbl>
```

```
print(no_legendarios)
```

```
## # A tibble: 954 x 24
##       id Name  `Height(m)` `Weight{kg}`    HP Attack Defense Sp.Atk Sp.Def Speed
##    <dbl> <chr>       <dbl>        <dbl> <dbl>  <dbl>   <dbl>  <dbl>  <dbl> <dbl>
##  1     1 Bulb~         0.7          6.9    45     49      49     65     65    45
```

```
##  2     2 Ivys~         1           13      60     62      63     80     80    60
##  3     3 Venu~         2          100      80     82      83    100    100    80
##  4     4 Char~         0.6          8.5    39     52      43     60     50    65
##  5     5 Char~         1.1         19      58     64      58     80     65    80
##  6     6 Char~         1.7         90.5    78     84      78    109     85   100
##  7     7 Squi~         0.5          9      44     48      65     50     64    43
##  8     8 Wart~         1           22.5    59     63      80     65     80    58
##  9     9 Blas~         1.6         85.5    79     83     100     85    105    78
## 10    10 Cate~         0.3          2.9    45     30      35     20     20    45
## # i 944 more rows
## # i 14 more variables: Type_1 <chr>, Type_2 <chr>, Is_Legendary <lgl>,
## #   Is_Mythical <lgl>, Egg_Group_1 <chr>, Egg_Group_2 <chr>, Generation <chr>,
## #   Capture_Rate <dbl>, Base_Happiness <dbl>, Is_Baby <lgl>, Egg_Cycles <dbl>,
## #   Past_Type <chr>, Is_Pseudo_Legendary <lgl>, Total_Stats <dbl>
```

ahora comparo los legendarios y los no los no lejendarios.

```
mean(Legendarios$Total_Stats)
```

```
## [1] 593.8592
```

```
mean(no_legendarios$Total_Stats)
```

```
## [1] 415.3197
```

ahora visualizacion

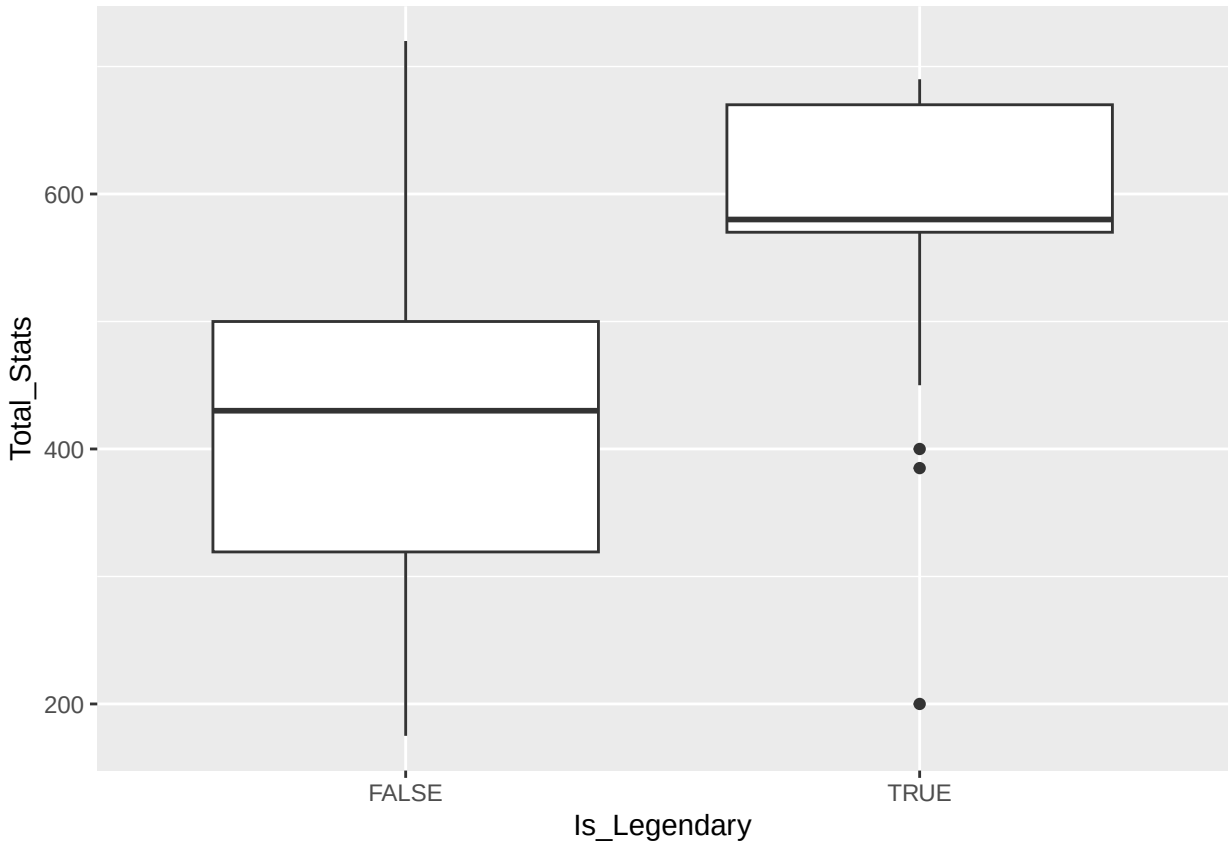
```
install.packages("ggplot2")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.5'
## (as 'lib' is unspecified)
```

```
library(ggplot2)
```

```
ggplot(X29_Pokemon, aes(x = Is_Legendary, y = Total_Stats)) + geom_boxplot() + labs(tittle = "Legendari
```

```
## Ignoring unknown labels:
## * tittle : "Legendarios"
```


600
400
200
Total_Stats
FALSE
TRUE
Is_Legendary