Using the mtcars dataset (download csv file or use within R), please make a report on the miles per gallon. This should be done with a combination of visual representation and descriptive statistics. You should have the following types of plots:

Boxplot, histogram, density plot, bar plot, and pie chart.

Elements to add:

Title

X Label

Y Label

Colors

Grading will be done based on the following criteria

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | Total |
| Correct Number of Graphs | One graph present | Two graphs | Three graphs | Four Graphs | Five Graphs |  |
| Overall aesthetics | No added elements | One Element | Two Elements | Three Elements | Four Elements |  |
| Explain graphs | No explanation given | Confusing explanation | Explain graphs but no conclusion | Explain graphs with conclusion | Explain graphs with clear conclusion |  |
| Ease of Understanding project | Cluttered and not easy to understand | No real objective lacking in statistical analysis | Clear Objective lacking in statistical analysis | Clear objective basic statistics | Has a clear objective in paper and use stats to back it up |  |
| Use of Descriptive Statistics | No Stats included | Talks about but doesn’t use stats | Has the stats listed but doesn’t use | Lists all stats and explains | Integrates the stats into reasoning |  |