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## Explore and Summarize Data

[Student Notes](#)[Code Review](#)[Project Review](#)[Project History](#)

### Meets Specifications

### Code Functionality



#### SPECIFICATION

All code is functional (e.g. No Error is produced and RMD document is not prevented from bring knit.)

MEETS SPECIFICATION

#### Reviewer Comments

How satisfied are you with this feedback?

#### SPECIFICATION

The project almost never uses repetitive code where a function would be more appropriate. The code references variables by name instead of using constants or column numbers.

MEETS SPECIFICATION

#### Reviewer Comments

Great job with the code!

#### To Exceed

Consider using custom functions to reduce repetitive code.

If interested check out this link: <http://www.statmethods.net/management/userfunctions.html>

[Requirements to exceed the specification >](#)

## Project Readability



### SPECIFICATION

All complex code is adequately explained with comments. It is always clear what the code is doing.

EXCEEDS SPECIFICATION

### Reviewer Comments

Very nice job commenting where necessary.

[Requirements to exceed the specification >](#)

### SPECIFICATION

The code uses formatting techniques to improve code readability. All lines are shorter than 80 characters.

EXCEEDS SPECIFICATION

### Reviewer Comments

All lines of code are below 80 characters, great formatting.

[Requirements to exceed the specification >](#)

### SPECIFICATION

Markdown syntax is used in the code to improve readability of the knitted file.

There are no large sections of the knitted HTML file with bad readability.

EXCEEDS SPECIFICATION

[Requirements to exceed the specification >](#)

## Quality of Analysis



## SPECIFICATION

The project appropriately uses univariate, bivariate, and multivariate plots to explore most of the expected relationships in the data set.

EXCEEDS SPECIFICATION

**Reviewer Comments**

Excellent job providing extra significant plots.

[Requirements to exceed the specification >](#)

## SPECIFICATION

Questions and findings are placed between blocks of R code regularly so it is clear what the student was thinking throughout the analysis.

MEETS SPECIFICATION

**Reviewer Comments**

Well done!

## SPECIFICATION

Reasoning is provided for the plots made throughout the analysis. Plots made follow a logical flow. Comments following plots accurately reflect the plots' contents.

MEETS SPECIFICATION

**Reviewer Comments**

Amazing job providing rich descriptions after the plots.

## SPECIFICATION

The project contains at least 20 visualizations. The visualizations are varied and show multiple comparisons and trends. Relevant statistics such as means, medians, quartiles, or confidence intervals are computed throughout the analysis when an inference is made about the data.

EXCEEDS SPECIFICATION

**Reviewer Comments**

Excellent job with the visualizations and how statistics were plotted along.

[Requirements to exceed the specification >](#)

## SPECIFICATION

Visualizations made in the project depict the data in an appropriate manner that allows plots to be readily interpreted. Choices of plot type and parameters aid interpretability.

EXCEEDS SPECIFICATION

#### Reviewer Comments

Excellent job, current plots depict the data in a great manner.

[Requirements to exceed the specification >](#)

## Final Plots and Summary



SPECIFICATION

The project includes a Final Plots and Summary section containing three plots and commentary. All plots in this section reflect what has been explored in the main body of the analysis.

MEETS SPECIFICATION

SPECIFICATION

The plots are well chosen and the plots fulfill at least 2 of the criteria. The plots are varied and reveal interesting trends and relationships.

Given criteria:

- Draw comparisons.
- Identify trends.
- Engage a wide audience.
- Explain a complicated finding.
- Clarify a gap between perception and reality.
- Enable the reader to digest large amounts of information.

EXCEEDS SPECIFICATION

#### Reviewer Comments

Excellent choices for the final plots, very insightful.

[Requirements to exceed the specification >](#)

SPECIFICATION

All plots have appropriately selected variables and are plotted in a way that accurately conveys

the data/information (i.e findings in Final Plot 1 do not depend on the findings of Final Plot 2).

MEETS SPECIFICATION

SPECIFICATION

All plots are labeled appropriately (axis labels, plot titles, axis units) and can be read and interpreted easily. Plots are scaled appropriately.

MEETS SPECIFICATION

SPECIFICATION

The reasoning and findings from each plot are explained and the text about each plot is descriptive enough to stand alone. Comments reflect the contents of the plots that they are associated with.

EXCEEDS SPECIFICATION

### Reviewer Comments

Well written and interesting descriptions were provided.

[Requirements to exceed the specification >](#)

## Reflection



SPECIFICATION

The project includes a Reflection section discussing the analysis performed.

MEETS SPECIFICATION

SPECIFICATION

The section reflects on how the analysis was conducted and reports on the struggles and successes throughout the analysis. The section provides at least one idea or question for future work.

EXCEEDS SPECIFICATION

### Reviewer Comments

A great reflection that concludes an amazing report.

[Requirements to exceed the specification >](#)

#### Additional Reviewer Comments

##### **Congratulations**

Amazing report, thank you for sticking thru all the reviews and improving upon each submission. You can be certain now that you are one step closer to becoming and an excellent Data Analyst. A very interesting and professional final project has been accomplished.

**I Hope that all the feedback provided helps you in your career as a date analyst.**

*Congratulations*

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