

GROUP NAME: “THE WALKING DEAD!”

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Introduction

Our group aims to find out if there is a pattern between the distance we walked and the outdoor temperature in New York City. We collected data from the pedometers in our phone and the local weather agencies.

Dataset

The dataset for this exercise consisted of the average daily distance walked by 4 adult men from November 1st 2018 to October 31st 2019 and the average outdoor temperature for each of those days. It is attached with the submission of this assignment. It can also be downloaded here :

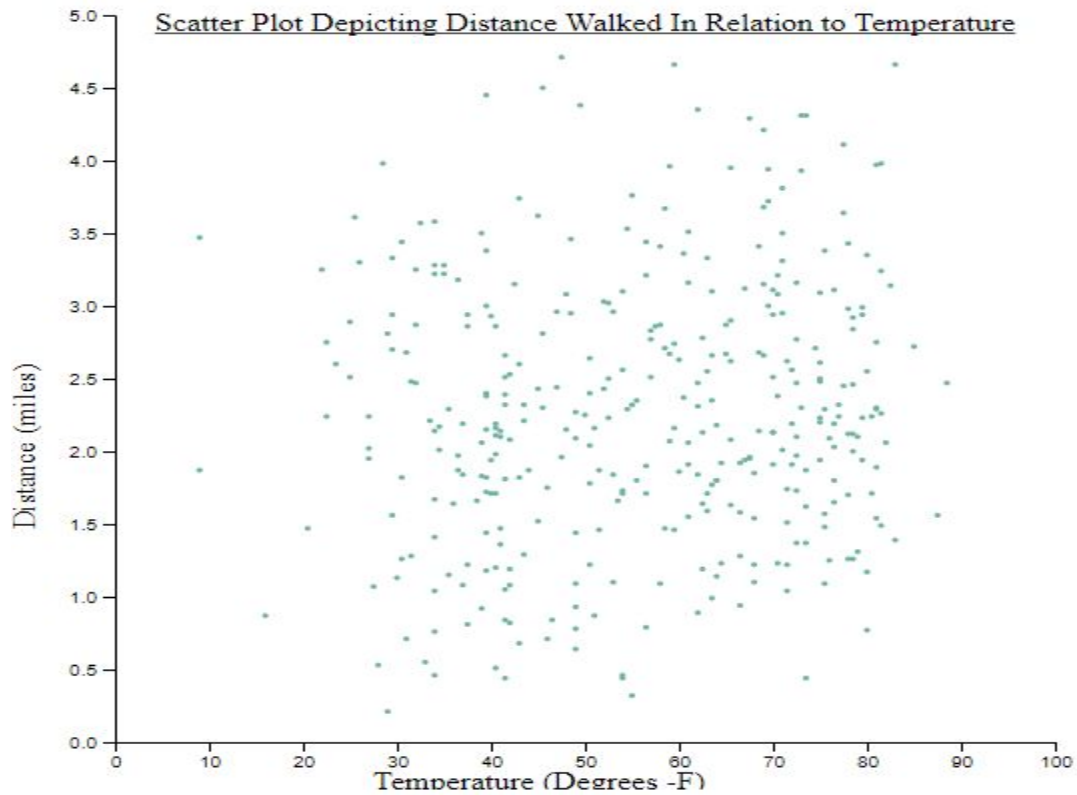
<https://github.com/avinashjairam/Data-Visualization-Class-Groupwork-/blob/master/Completed%20Dataset%20-%20Sheet1.csv>

Method

The method used to determine if there was a relationship between these two variables was to create a scatter plot. We hope that patterns in the dataset would manifest as clusters in the scatter plot and thus, tell us if there is a positive, negative, or neutral relationship between distance walked and the average outdoor temperature.

Visualization

The web app can be viewed here <https://avinashjairam.com/scatterPlot.html>
A screenshot of the visualization is seen on the next page below.



Conclusion

From the visualization above we can see that there is definitely a relationship between distance walked and the outdoor temperature. That is, as the outdoor temperature increased, longer distances were walked. However, less walking was done when the temperature was below 32°F (freezing point) and when it was above 90 °F. This is consistent with the fact that most human beings are uncomfortable spending time outdoors when the temperature is extremely hot or cold.

References

The source code to make the scatter plot was taken from a template written by Yan Holtz. This template was found in the d3.js documentation and then modified.

https://www.d3-graph-gallery.com/graph/scatter_basic.html