Assignment 2: Practicing Latex

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Abstract

This is where the abstract goes.

1 Introduction

Use this section to answer three questions: Why is the topic important/interesting? What has been done on this topic in the literature? What is your contribution?
The rest of the paper is organized as follows. The data will be presented in Section 2. The methods are described in Section 3. The results are reported in Section 4. A discussion concludes in Section 5. The appendix is in Section 6.

2 Data

Use this section to describe the data that helps to answer your research questions.

3 Methods

In math, we are able to use $a^2 + b^2 = c^2$, which is the Pythagorean theorem.

Euler's identity is $e^{i\pi} + 1 = 0$.

Example of in-display equations:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

$$f(x) = \frac{\lambda^2}{x!} e^{-\lambda} \tag{2}$$

Equation 1 is the quadratic formula.

Equation 2 is the Poisson distribution.

4 Results

5 Discussion

Table and plot from the Airquality dataset from R:

"Ozone"	"Solar.R"	"Wind"	"Temp"	"Month"	"Day"
41	190	7.4	67	5	1
36	118	8	72	5	2
12	149	12.6	74	5	3
18	313	11.5	62	5	4
NA	NA	14.3	56	5	5
28	NA	14.9	66	5	6

Table 1: Table

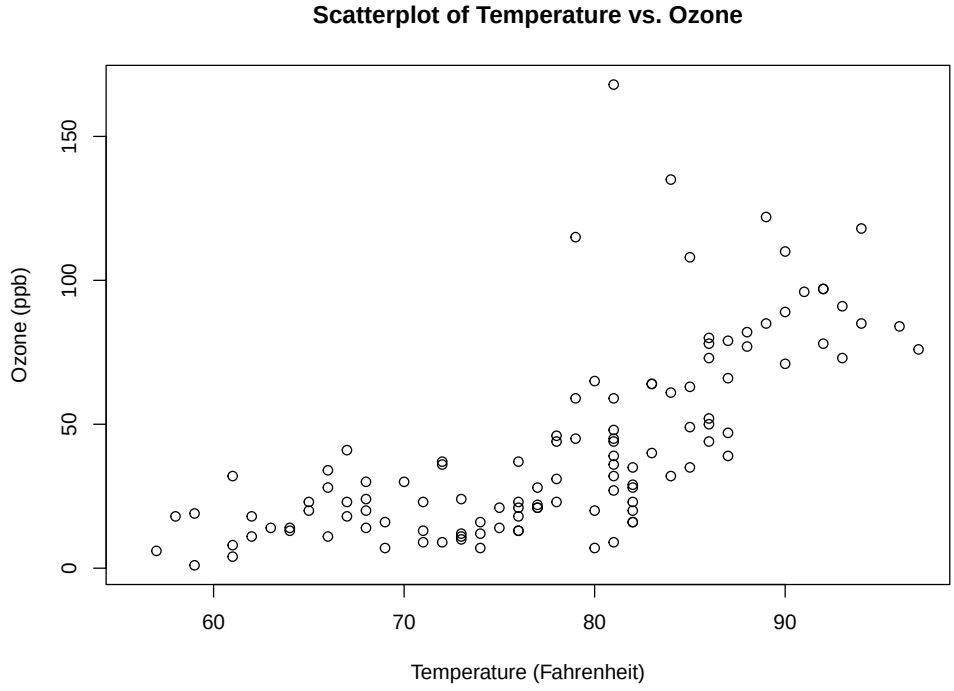

Figure 1: Scatterplot

In Figure 1, we can see that there is a positive association between Ozone and Temperature.
In table 1, we can see that there are some missing values in the table.

6 Appendix

This is a textual citation of Fan [2014].
This is a parenthetical citation of Thomas Davenport's report [Davenport, 2012].

References

Thomas H. Davenport. How 'big data' is different. *MITSloan Management Review*, 54, 2012.

Jianqing Fan. Challenges of big data analysis. *National Science Review*, 1:293–314, 2014.