The Air Quality Dataset

Luke Morison

23/08/2020

## Summary of Air Quality Dataset

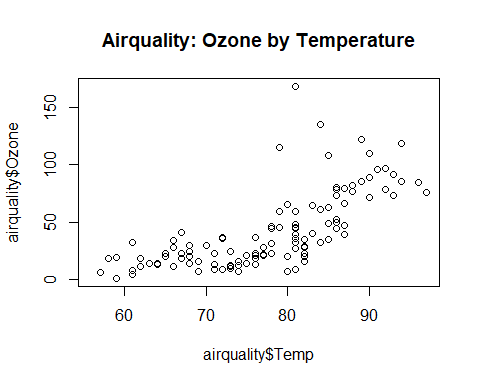
This exercise will be working with the built-in air quality dataset.[[1]](#footnote-21) This dataset contains 154 daily air quality measurements in New York from May 1, 1973 *(a Tuesday)* to September 30, 1973. The dataset contains 6 variables

* **Ozone**: Mean ozone in parts per billion *(ppb)* from 1300 to 1500 hours at Roosevelt Island;
* **Solar.R**: Solar radiation in Langleys *(lang)* in the frequency band 4000–7700 Angstroms from 0800 to 1200 hours at Central Park;
* **Wind**: Average wind speed in miles per hour *(mph)* at 0700 and 1000 hours at LaGuardia Airport;
* **Temp**: Maximum daily temperature in degrees Fahrenheit *(oF)* at LaGuardia Airport;
* **Month**: numeric month *(1-12)*
* **Day**: numeric Day of the month *(1-31)*

### Table of Top of the Air Quality Dataset

Top of the Air Quality Dataset

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ozone | Solar.R | Wind | Temp | Month | Day |
| 41 | 190 | 7.4 | 67 | 5 | 1 |
| 36 | 118 | 8.0 | 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 |

###Plot of Ozone by Temperature - Air Quality Dataset 

1. Chambers, J. M., Cleveland, W. S., Kleiner, B. and Tukey, P. A. *(1983)* Graphical Methods for Data Analysis. Belmont, CA: Wadsworth. [↑](#footnote-ref-21)