Tha Air Quality Dataset

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## Summary of Air Quality Dataset

This exercise will be working with the built-in air quality dataset.[[1]](#footnote-22) 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

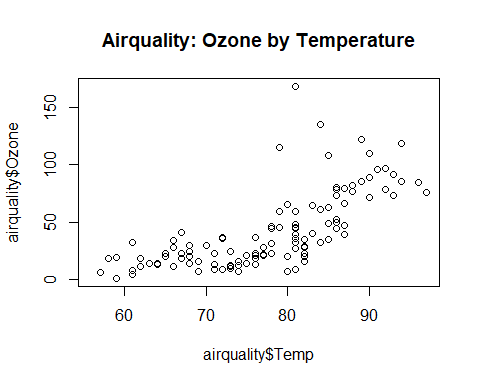
knitr::kable(head(airquality), caption = 'Top of the Air Quality Dataset')

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 Ozone by Temeperature - Air Quality Dataset

plot(airquality$Temp, airquality$Ozone,   
 main="Airquality: Ozone by Temperature")



1. Chambers, J. M., Cleveland, W. S., Kleiner, B. and Tukey, P. A. *(1983)* Graphical Methods for Data Analysis. Belmont, CA: Wadsworth. [↑](#footnote-ref-22)