

Air Pollution Across the Globe

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Research Topic: Air Pollution Across the Globe

Research Questions

In order to analyze air pollution across the globe, we first need to examine how air pollution is impacted by pollutants. Further, how does pollutant air quality index values (e.g. Carbon Dioxide, Ozone, Nitrogen Dioxide, and Particle Matter) impact the overall air quality index, which are most contributing to poor air quality index? Understanding the strength of each pollutant's relationship with air quality will

Plan

1. Load/get needed packages in an R Chunk
2. Read csv
3. Use {dplyr} package to use rename() to replace column names
4. Get linear regression model using lm() and summary()
5. Go to Dr.Hatfield and ask how to clean summary() and use kableExtra

Call:

```
lm(formula = AQI ~ CO + Ozone + NO2 + PM, data = cleanAQIdata)
```

Residuals:

Min	1Q	Median	3Q	Max
-26.664	-3.527	-1.830	0.546	167.393

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	-0.603909	0.111439	-5.419	6.05e-08	***
CO	0.017075	0.039702	0.430	0.66715	
Ozone	0.157513	0.002338	67.371	< 2e-16	***
NO2	-0.036205	0.013496	-2.683	0.00731	**
PM	0.980138	0.001264	775.385	< 2e-16	***