The open weather map api has a lot of significant information stored in it and when combined with the random city generator, allows the user to generate a lot of information about assorted global places.

In my iteration of the cities and weather, I did not find a lot of observable correlations.

It is clear based on the data that the closer a place is to the equator, the higher the max temperature is. It would be interesting to know whether that was also true in the middle of the summer.

Humidity is very well spread across both hemispheres. Whatever latitude, there does not seem to be a correlation to humidity, however, of the places I surveyed, more have high humidity than low humidity.

Cloudiness is interestingly clustered at percentages rather than latitudes. The majority of my cities are at either zero percent, forty percent, or one hundred percent cloudiness. This lines up with the way that we understand our weather: no clouds(0%), partly cloudy(40%), and cloudy(100%). So in the end that data seems on point.