WeatherPy Summary

1. Since there is more land mass in the northern hemisphere, there are more cities in the northern hemisphere. So in all of our following analysis where we look at max temperature, humidity, cloudiness, and wind speed as a function of latitude, when we randomly select and plot the max temperature versus latitude for 500+ cities, cities in northern hemisphere are found as high as 80 degrees north, but no samples are found below -60 degrees south.

2. The scatter plot of max temperature versus latitude clearly shows that the closer to the equator, the higher the maximum temperature of the city. And the city is to the north or south of the equator, the maximum temperature is lower.

3. The scatter plot of humidity versus latitude shows that cities with lower humidity tend to be further away from the equator. This makes sense since temperatures are generally lower the further away one moves from the equator, and humidity is generally lower when the temperature is lower.

4. The scatter plot of wind speed versus latitude does not indicate that wind speed at different cities is a function of latitude. And that is reasonable as wind is more a function of elevation change, proximity to open waters, or both.

5. The scatter plot of cloudiness versus latitude also illustrates, that cloudiness in cities is not a function of latitude. However, there seems to be more samples at 20%, 40%, 75%, and 100%; regardless how many times we run the code. This may have more to do with how or when percentage cloudiness is measured, and if qualitative indicators, such as clear skies, partly cloudy, mostly cloudy, and overcast, are transposed to a handful of quantitative levels: 0%, 20%, 40%, 60%, 80%, and 100%.