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3 Observable Trends on WeatherPy

1. The first observable trend is the most obvious. The max temperature of a city is highly dependent on that city’s latitude. It’s an intuitive trend, but the first scatterplot displays a noticeable ‘hill’ of data in the middle of the graph, where the corresponding data is at latitude 0. And in either direction, the temperature steadily declines.
2. There is a positive correlation for cities’ max temperatures in the southern hemisphere (0.678 r2 value) and a negative correlation for northern hemisphere cities (-0.906 r2). This is further evidence for the first trend that a city’s max temperature is correlated to it’s latitude. However, none of the other graphs regarding northern and southern hemisphere weather patterns have any significant correlations. The next closest data set in terms of correlation is southern hemisphere wind speeds. But it’s r2 value is only -0.439 which is not significant enough to classify as a correlation.
3. The first scatterplot, plotting max temps for all cities vs their latitudes, has a distribution very similar to standard normal distribution (bell curve). However, the ‘mean’ of the graph is centered around 10 latitude, instead of at the equator like I might have expected. This probably signifies the Earth’s distribution of mass being about 2 to 1 in the heavier in the northern hemisphere. The globe is skewed in its distribution of mass (and therefore most likely cities as well) so I would assume this is what is showing up in this one particular graph. It’s something I found interesting but would need to be studied further to say so conclusively.