WEATHER ANALYSIS

... Findings relationships among in temp, humidity, cloudiness and wind-speed vs. Latitudes

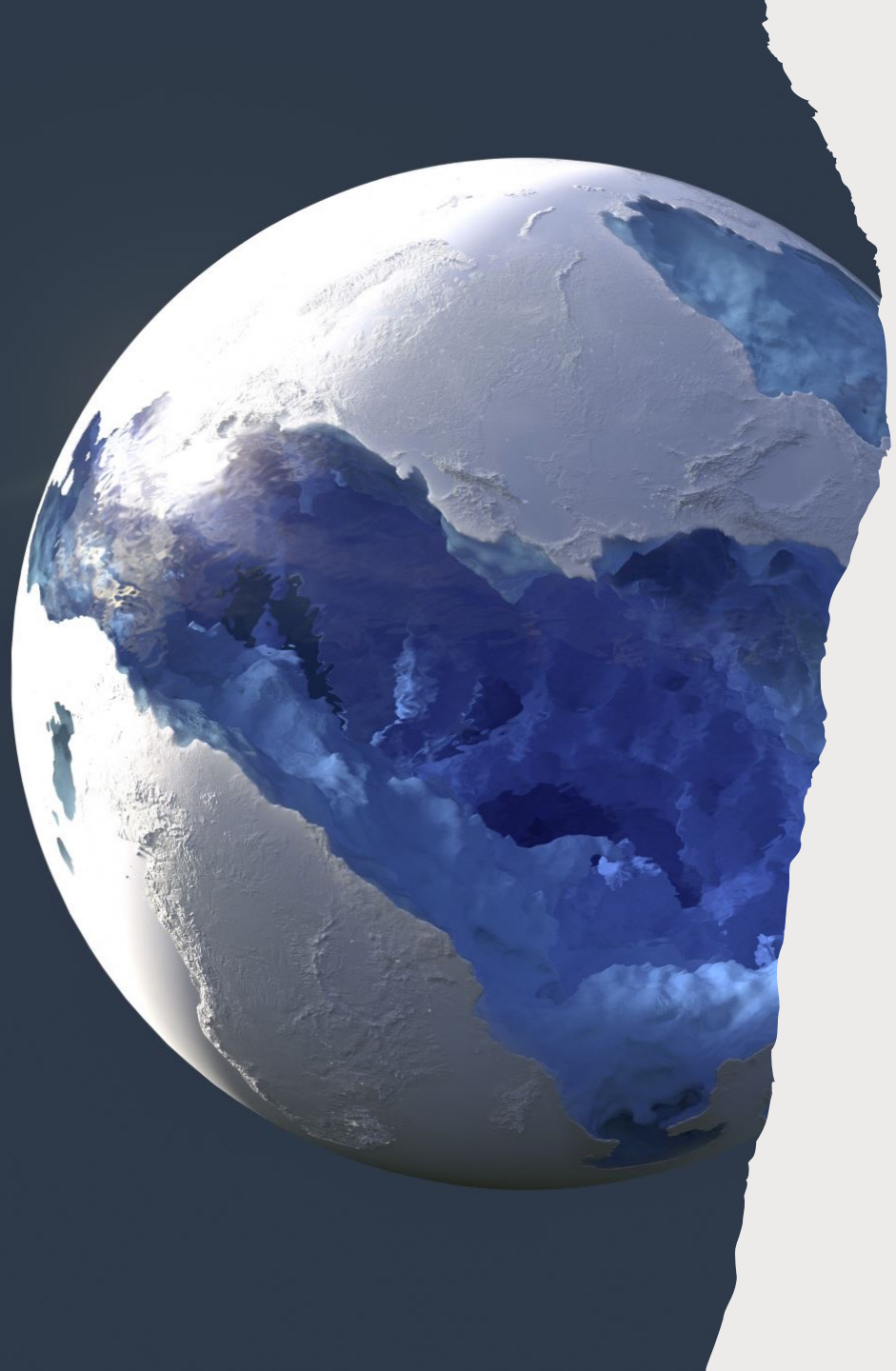
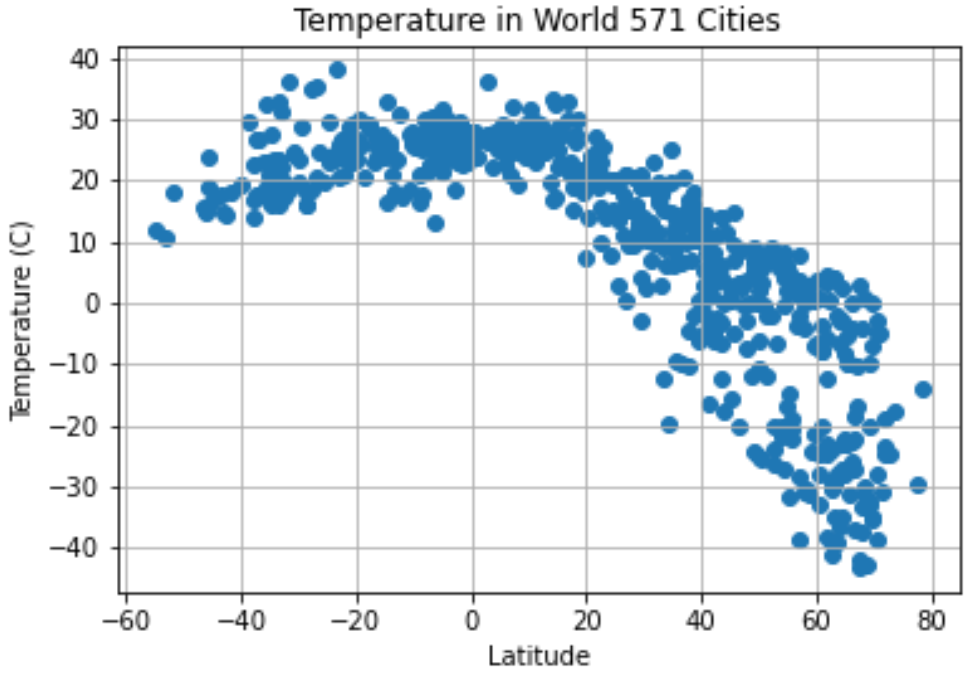


TABLE OF CONTENT

1. Comparison between Latitudes and:
   - ✓ Temperature
   - ✓ Humidity
   - ✓ Cloudiness
   - ✓ Wind-speed
2. Analsysis the above specifically in the North | South Hemisphere
3. Vacation plan

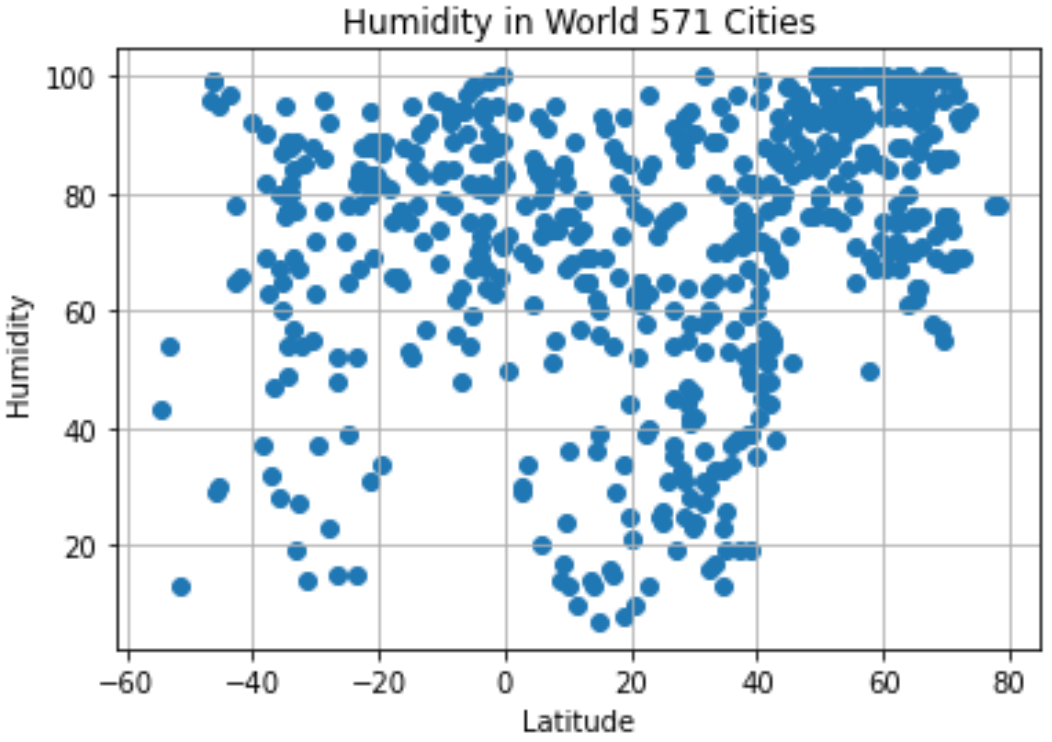
LATITUDES VS. TEMPERATURE

- For total 571 cities found in the json file, the scatter plot shows a ***not-so-close*** relationship between Latitudes and Temperature.
- However, the correlation bt Latitudes and Temperature is : -0.75 which shows a ***negative correlation*** between the variables, we may say, the higher the latitudes, the lower the temperature. But yet as mentioned above, the -0.75 is not close relationship between these two factors



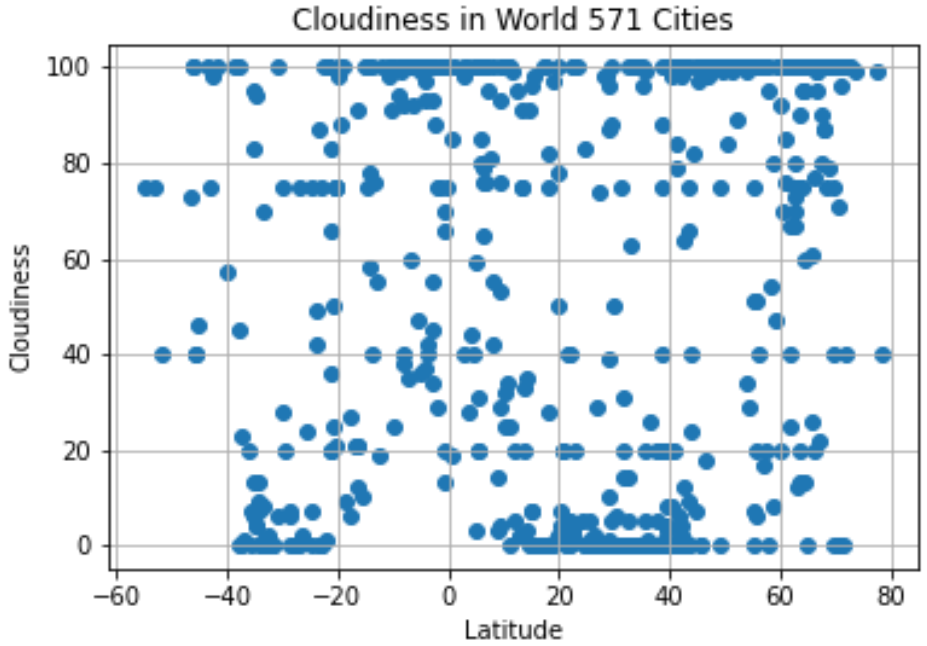
LATITUDES VS. HUMIDITY

- there is ***no correlation*** between the two variables: Latitudes and Humidity



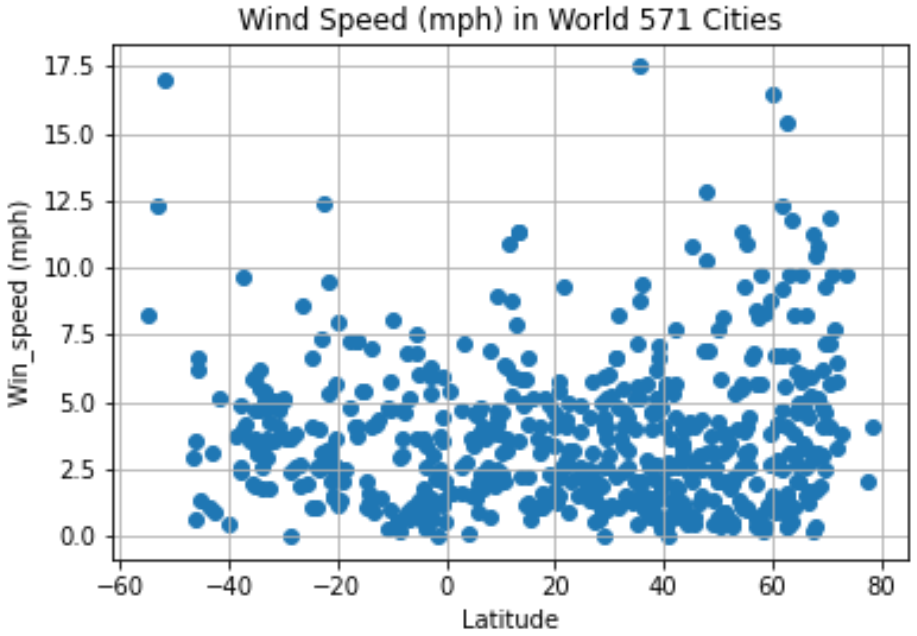
LATITUDES VS. CLOUDINESS

- there is ***no correlation*** between the two variables: Latitudes and Cloudiness



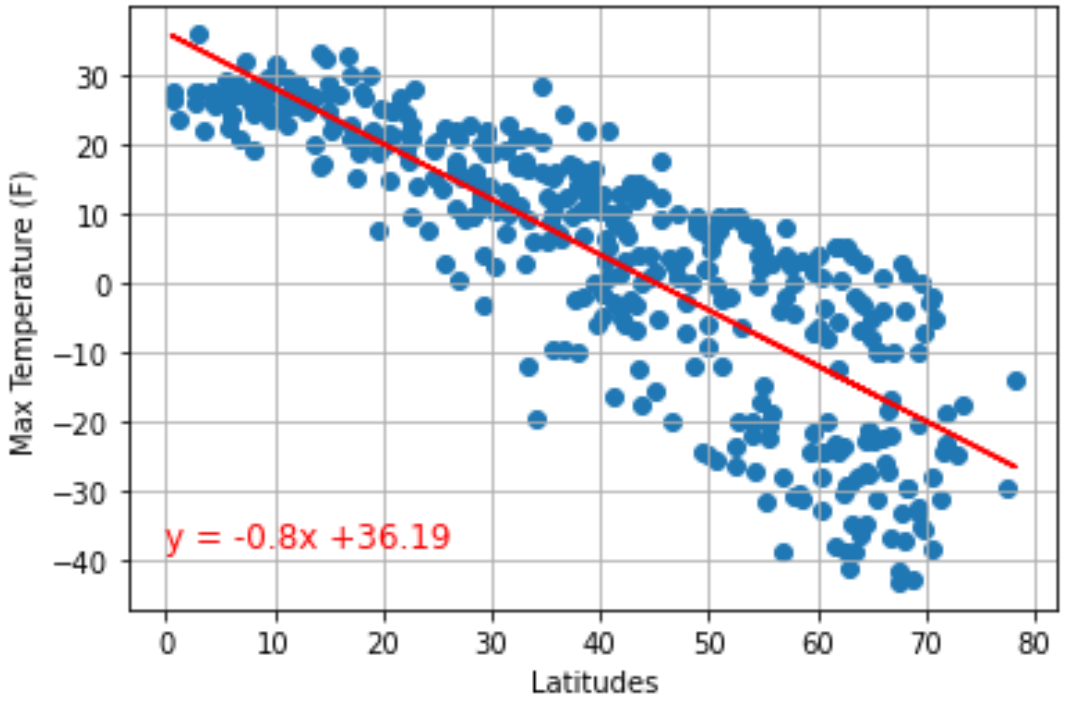
LATITUDES VS. WIND SPEED

- there is ***no correlation*** between the two variables: Latitudes and Wind speed



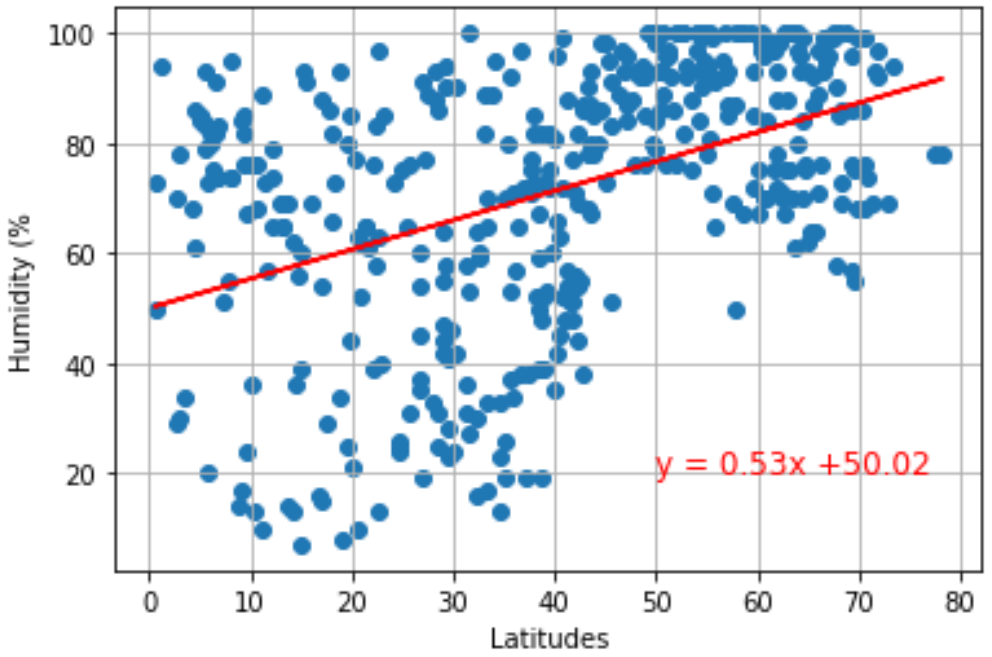
IN THE NORTH HEMISPHERE

- As analyse in the slide #3, there is a ***negative correlation*** between the temperature and Latitudes.
- We can see the negative regression with equation: y = -0.8x + 36.19
- The relationship seems to be closer when we zoom-in to the North Hemisphere.



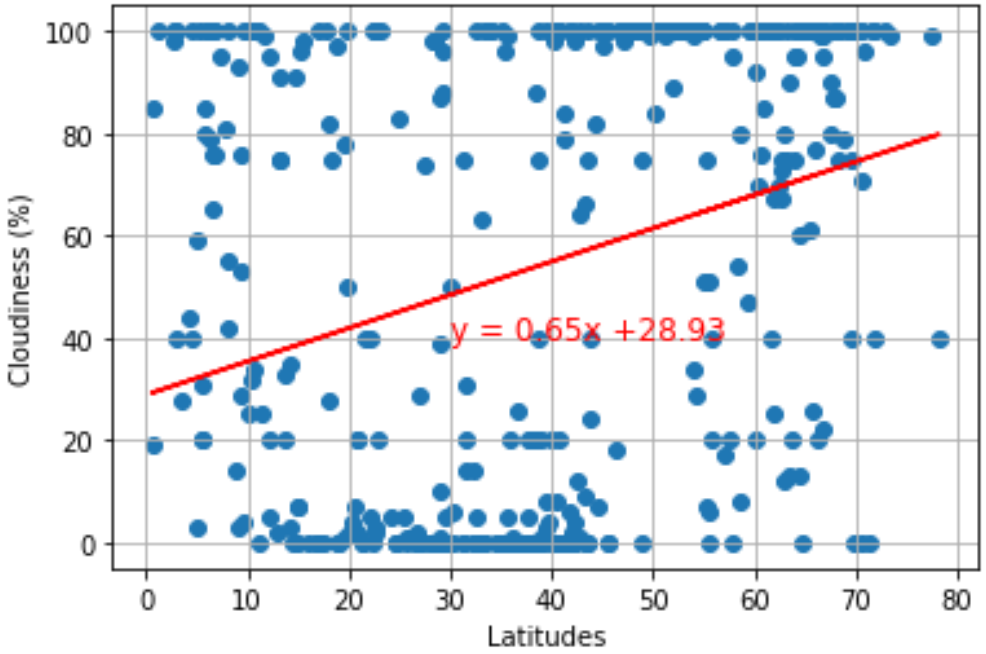
IN THE NORTH HEMISPHERE

- The relationship between the Humidity and latitude is not closed, however, in this North Hemisphere, it likely has a ***positive correlation*** between them but again, ***not so closed***.
- The closer the equator, the higher the humidity.



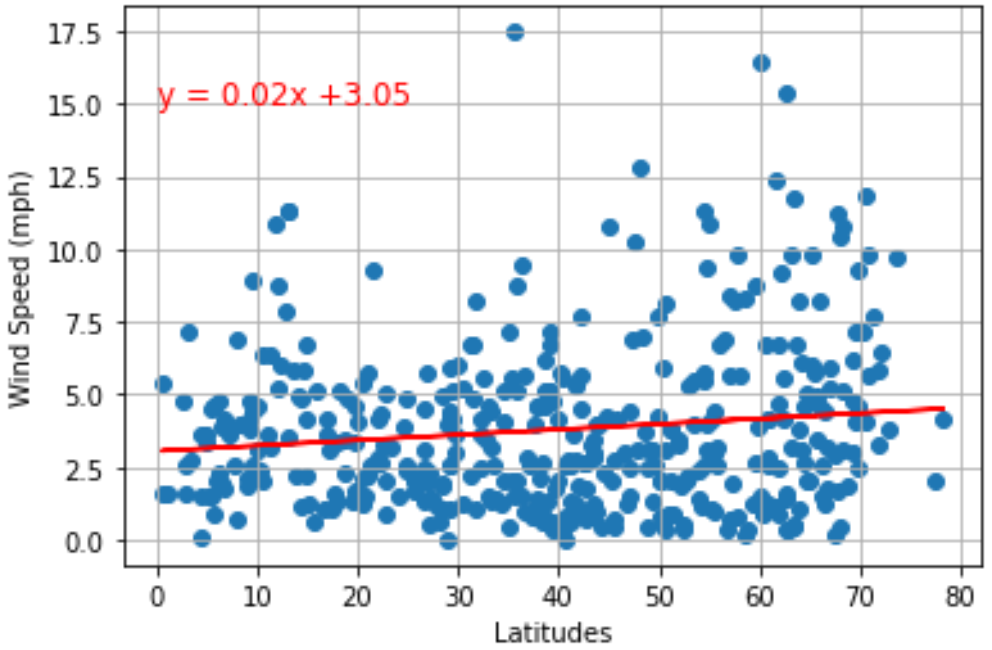
IN THE NORTH HEMISPHERE

- Even though the regressive linear show positive but it's likely no correlation between the latitude and the cloudiness in the North Hemisphere



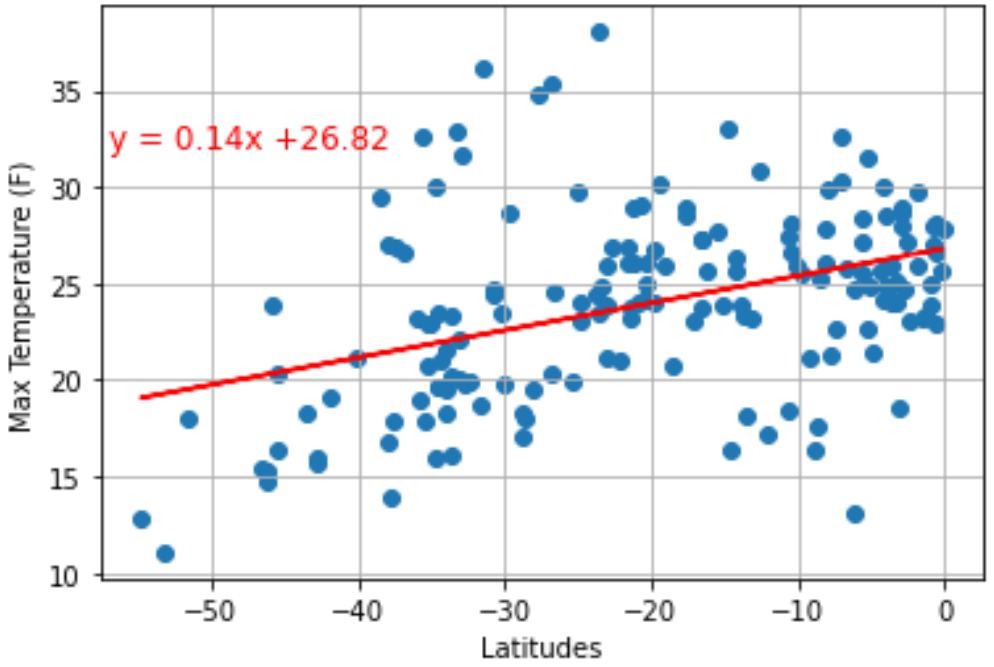
IN THE NORTH HEMISPHERE

- Same with the cloudiness analysis, there is no correlation between latitude and wind speed in the North Hemisphere.
- Likely the wind speed are from 1mph to 10 mph mostly in this North half of the earth.



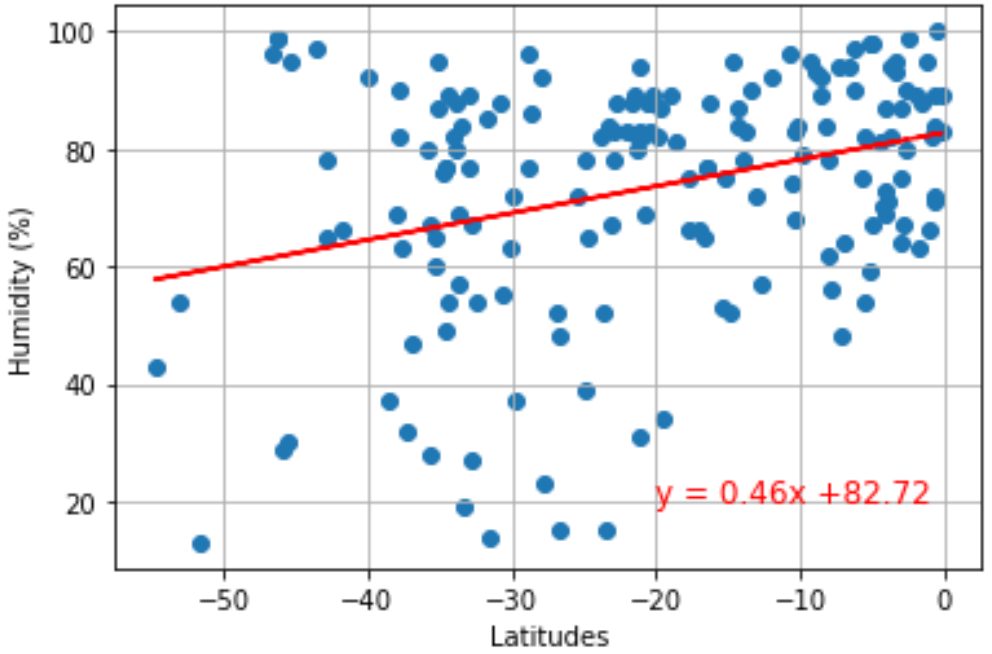
IN THE SOUTH HEMISPHERE

- The correlation is 0.406 that shows lower than the minimum 0.5 and up to 1.
- The relationship between the temperature and latitude in the South Hemisphere is not closed, however, in this North Hemisphere, it likely has a ***positive correlation*** between.
- In the South Hemisphere, whereas closer to the equator, the higher the temperature there.



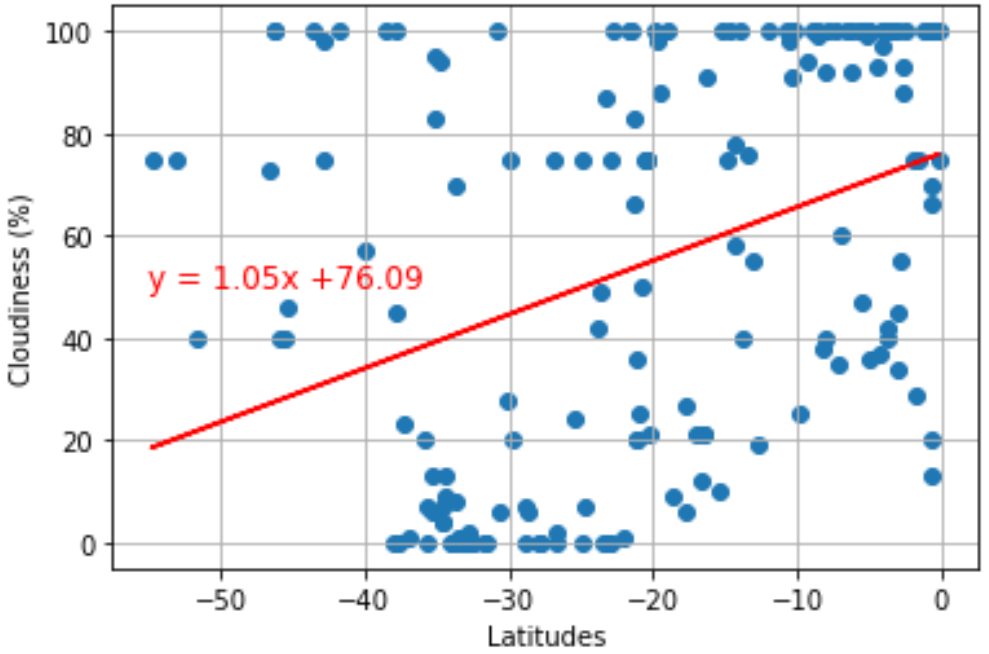
IN THE SOUTH HEMISPHERE

- No closed relationship here between the latitude and the humidity in the South Hemisphere.
- However, the ***positive linear*** let us may say, the closer to the equator, the higher the humidity.



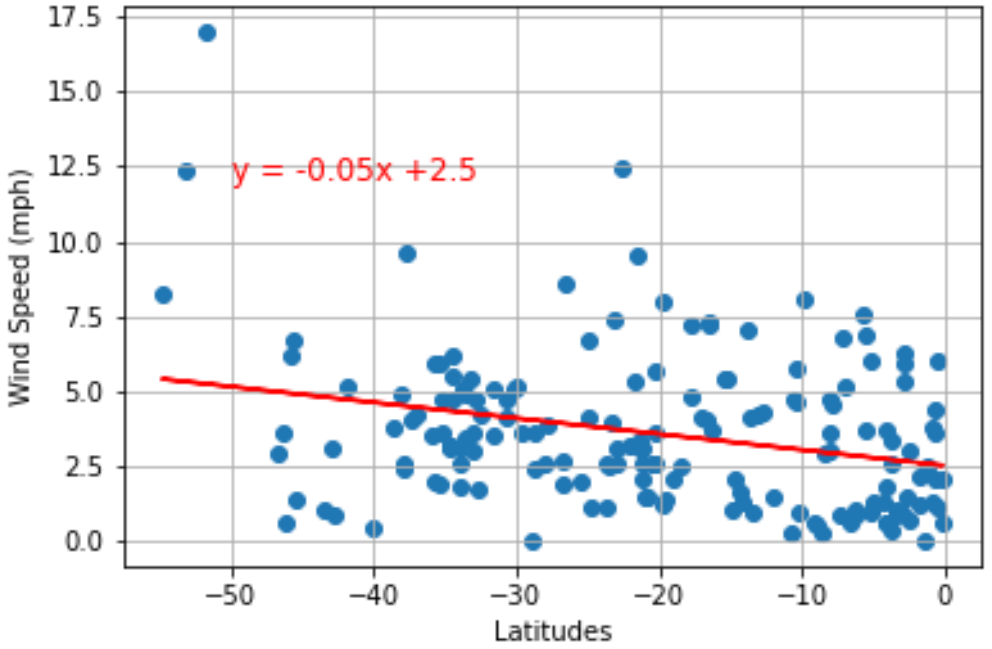
IN THE SOUTH HEMISPHERE

- No correlation between the latitude and the cloudiness in this South Hemisphere



IN THE SOUTH HEMISPHERE

- Look likely no correlation between the latitude and the wind speed in the South Hemisphere even though the linear show negative regression.



VACATION PLAN

...for a family loving peaceful and cool places in the US...

WHAT ARE OUR CRITERIA

- Cool place with temp from 18 to 25 Celcius
- Zero cloudiness
- Low humidity: below 40
- Domestic only

CITIES TO VISIT...

1. San Patricio
2. Leon Valley
3. Lawton
4. Pineville
5. Stephenville


COLORADO
KANSAS
St. Louis
MISSOURI
WEST VIRGINIA
KENTUCKY
Nashville
TENNESSEE
Albuquerque
NEW MEXICO
Charlotte
Atlanta
SOUTH CAROLINA
MISSISSIPPI
ALABAMA
GEORGIA
Dallas
TEXAS
Houston
LOUISIANA
Jacksonville
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THANK YOU

...anything I could make this analysis better, you're welcome to share...