WeatherPy

March 27, 2018

Observed Trends:

1. The closer a city is to the equator (a lower absolute value of latitude), the higher the temperature of the city is.
2. Surprisingly, the humidity in a city does not have a strong correlate with the temperature or latitude. Cities across the entire latitude range have similar humidity levels. This observation applies to the cloudiness percentage for each city, and for the wind speed for each city.
3. However, the highest wind speeds appeared farthest away from the equator, and those cities approximately 20 degrees North or South of the equator had the lowest humidity percentages.

In [1]:
```
# Dependencies
import csv
import matplotlib.pyplot as plt
import numpy as np
import requests
import pandas as pd
import openweathermapy.core as owm
from citipy import citipy
from pprint import pprint
import seaborn as sns


#API config key
from config import api_key
```

In [2]:
```
# Create latitudes and longitudes

latitude = np.random.uniform(-90,90,2000) # Random list of 2000 items with a range of
longitude = np.random.uniform(-180,180,2000) # Random list of 2000 items with a range

#print (latitude)
#print (longitude)
```

In [3]:
```
# Create initial Cities Dataframe for 10 Latitudes and Longitudes
city_df = pd.DataFrame({"Latitude": latitude, "Longitude": longitude})
city_df.head()
```

Out[3]:

	Latitude	Longitude
0	-66.077809	88.290853
1	52.356347	69.975055
2	-21.543343	42.959799
3	83.597567	-109.241022
4	55.723040	93.307338

In [4]:
```
# Add additional columns Cities, Temperature, Humidity, Cloudiness and Wind Speed to c
# Note that we used "" to specify initial entry.

city_df["City"] = ""
city_df["Country Code"] = ""
city_df["Temperature"] = ""
city_df["Cloudiness"] = ""
city_df["Wind Speed"] = ""
city_df["Humidity"] = ""
#city_df["URL"] = ""
city_df.head()
```

Out[4]:

	Latitude	Longitude	City	Country Code	Temperature	Cloudiness	Wind Speed	Humidity
0	-66.077809	88.290853						
1	52.356347	69.975055						
2	-21.543343	42.959799						
3	83.597567	-109.241022						
4	55.723040	93.307338						

In [5]:
```
# Pull the values of Cities for each Latitude and Longitude and append those values in
# Loop through the city_df and run a latitude/longitude search for each city and its r
# and append the corresponding values

for index, row in city_df.iterrows():
    latitude = row['Latitude']
    longitude = row ["Longitude"]

    city_df.set_value(index, "City", citipy.nearest_city(latitude, longitude).city_name
    city_df.set_value(index, "Country Code", citipy.nearest_city(latitude, longitude).c

city_df = city_df.drop_duplicates(subset=["City","Country Code"], keep="first")
```

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C:\Users\santo\Anaconda3\envs\PythonData\lib\site-packages\ipykernel_launcher.py:9: FutureWarni
  if __name__ == '__main__':
C:\Users\santo\Anaconda3\envs\PythonData\lib\site-packages\ipykernel_launcher.py:10: FutureWarn
```

```
  # Remove the CWD from sys.path while we load stuff.
```

```
In [6]: # Construct the base url to pull the information from openweatherapi
        #base_url = "http://api.openweathermap.org/data/2.5/weather"
        base_url = "http://api.openweathermap.org/data/2.5/weather?units=Imperial"
```

```
In [7]: # Loop through the city_df and call the target url to pull the required information
        # Print Retrieving Information and Log

        print("Beginning Data Retrieval" + "\n" + "------------------------")

        for index, row in city_df.iterrows():
            city = row['City']
            country = row ["Country Code"]
            city_country = str(city)+ "," + str(country)

            try:
                #current_weather = owm.get_current(city_country, **settings)
                current_weather_url = base_url + "&appid=" + api_key + "&q=" + city_country
                current_weather = requests.get(current_weather_url).json()
                print (current_weather_url)

                city_df.set_value(index, "Temperature", current_weather['main']['temp'])
                city_df.set_value(index, "Humidity", current_weather['main']['humidity'])
                city_df.set_value(index, "Cloudiness", current_weather['clouds']['all'])
                city_df.set_value(index, "Wind Speed", current_weather['wind']['speed'])
                #city_df.set_value(index, "URL", current_weather_url)

            except:
                city_df.set_value(index, "Temperature", "No Data from API")
                city_df.set_value(index, "Humidity", "No Data from API")
                city_df.set_value(index, "Cloudiness", "No Data from API")
                city_df.set_value(index, "Wind Speed", "No Data from API")
                #city_df.set_value(index, "URL", "No Data from API")
                #print("No Data found")


        city_df = city_df[["City", "Country Code", "Latitude", "Longitude","Temperature", "Humi

        city_df.head()
```

```
Beginning Data Retrieval
------------------------
http://api.openweathermap.org/data/2.5/weather?units=Imperial&appid=f9e78d5d8d0cd58dc8681b2616

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C:\Users\santo\Anaconda3\envs\PythonData\lib\site-packages\ipykernel_launcher.py:18: FutureWarn
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```

```
Out[7]:          City Country Code   Latitude   Longitude Temperature Humidity  \
        0    busselton           au -66.077809   88.290853       62.98      100
        1      makinsk           kz  52.356347   69.975055        24.1       85
        2    ankazoabo           mg -21.543343   42.959799       87.37       34
        3  yellowknife           ca  83.597567 -109.241022      -14.81       75
        4       zykovo           ru  55.723040   93.307338       24.64       89

          Cloudiness Wind Speed
        0         44       9.64
        1          0      14.67
        2          8       9.53
        3         90       3.36
        4         92      16.35
```

```
In [8]: city_df.to_csv("constructed_city_df.csv", header = True)
```

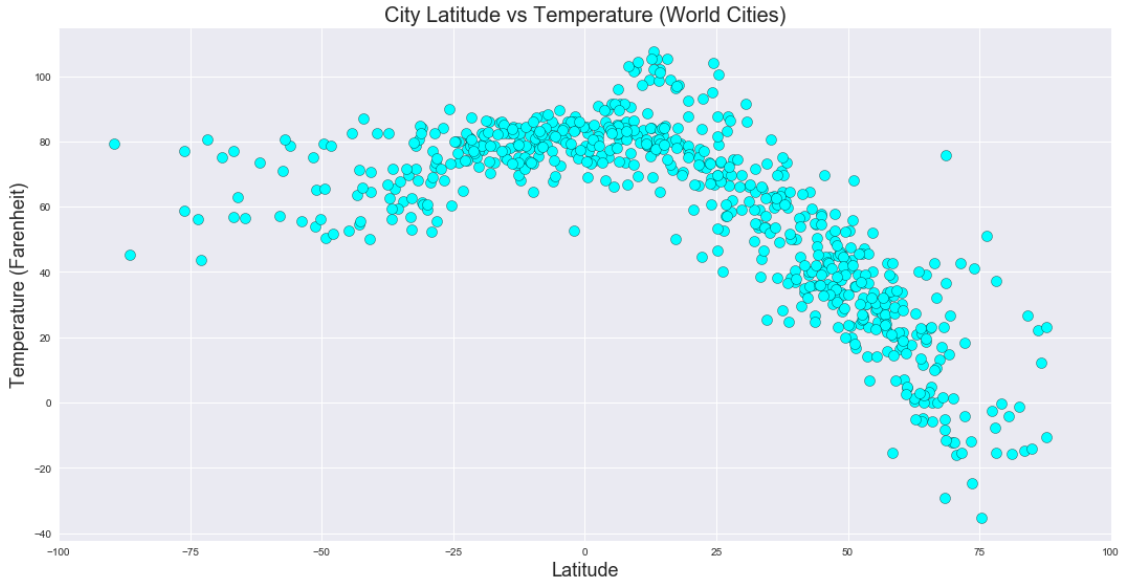
```
In [9]: # Clean the constructed data frame without "No Data from API"
        city_df_clean = city_df[city_df["Temperature"]!="No Data from API"]

        city_df_clean
        city_df_clean.to_csv("city_df_clean.csv", header = True)
```

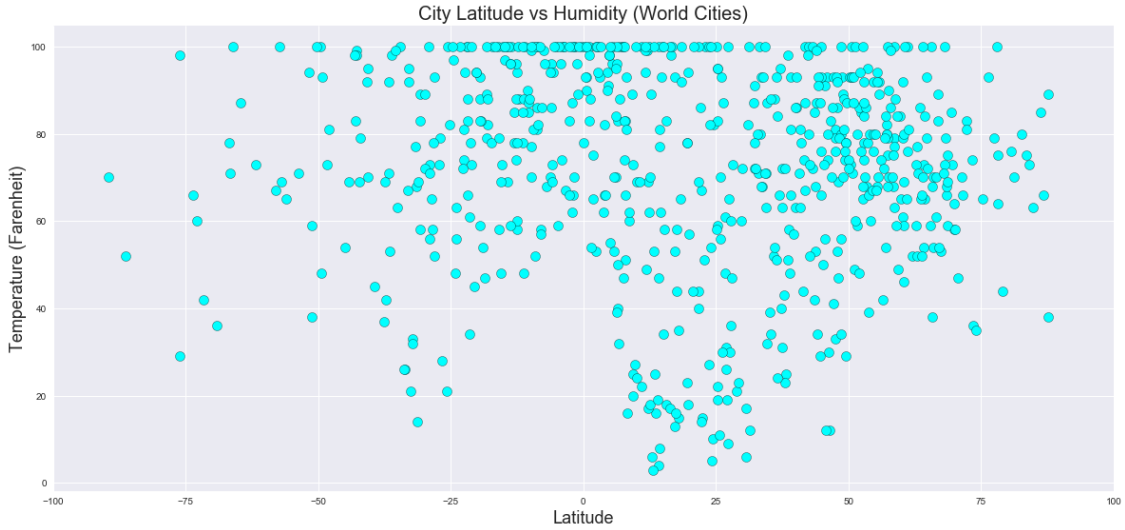
```
In [10]: # Checking the data types for our dataframe
         #City_Df_Filter.dtypes
```

```
In [15]: # Build a scatter plot for Temperature (F) vs. Latitude
         sns.set()
         plt.scatter(city_df_clean["Latitude"], city_df_clean["Temperature"], marker = "o" , c
         plt.xlim(-100,100)
         # Incorporate the other graph properties
         plt.title("City Latitude vs Temperature (World Cities)" , fontsize = 20)
         plt.ylabel("Temperature (Farenheit)" , fontsize= 18)
         plt.xlabel("Latitude", fontsize=18)
         plt.grid(True)
         fig_size = plt.rcParams["figure.figsize"]
         fig_size[0] = 20
         fig_size[1] = 9
```

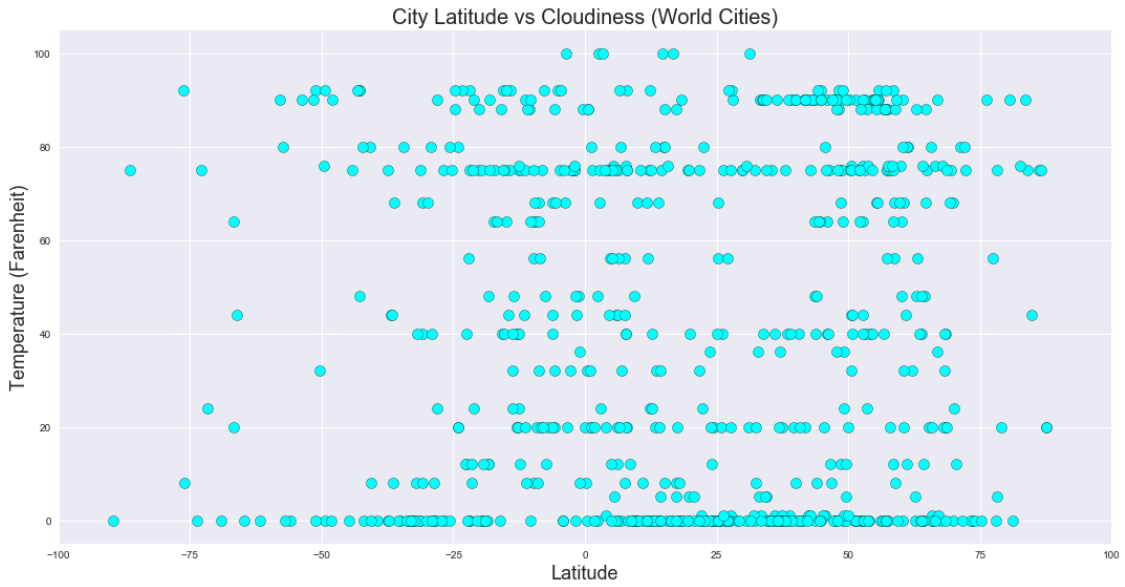
```
plt.rcParams["figure.figsize"] = fig_size
plt.savefig("Images/LatitudeVsTemperature.png")
plt.show()
```



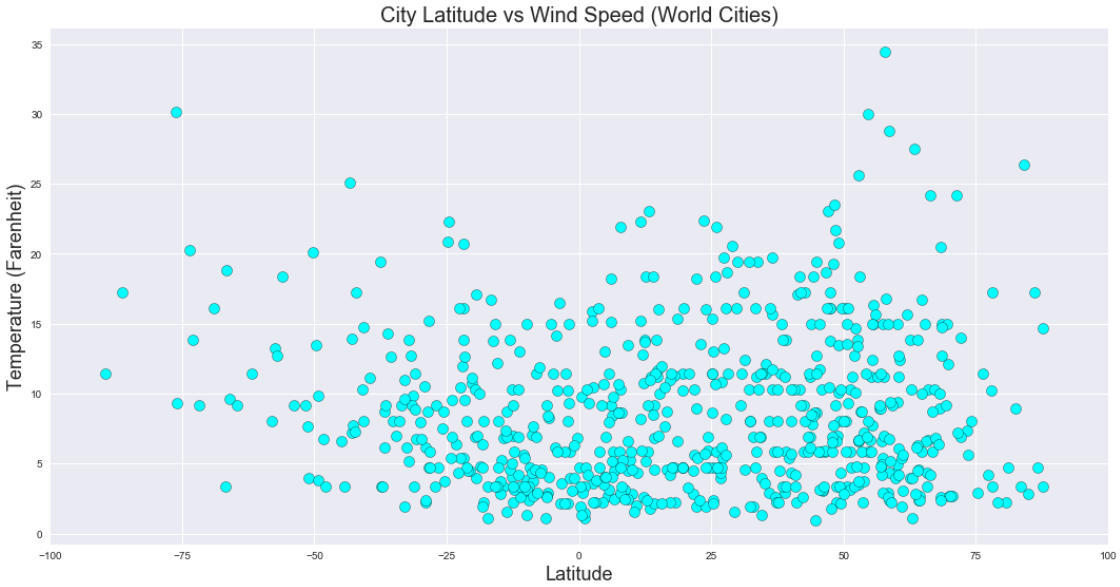
In [12]:
```
# Build a scatter plot for Humidity (F) vs. Latitude
sns.set()
plt.scatter(city_df_clean["Latitude"], city_df_clean["Humidity"], marker = "o" , colo
plt.xlim(-100,100)
# Incorporate the other graph properties
plt.title("City Latitude vs Humidity (World Cities)" , fontsize = 20)
plt.ylabel("Temperature (Farenheit)" , fontsize= 18)
plt.xlabel("Latitude", fontsize=18)
plt.grid(True)
fig_size = plt.rcParams["figure.figsize"]
fig_size[0] = 18
fig_size[1] = 9
plt.rcParams["figure.figsize"] = fig_size
plt.savefig("Images/LatitudeVsHumidity.png")
plt.show()
```



In [13]:
```
# Build a scatter plot for Cloudiness vs. Latitude
sns.set()
plt.scatter(city_df_clean["Latitude"], city_df_clean["Cloudiness"], marker = "o" , co
plt.xlim(-100,100)
# Incorporate the other graph properties
plt.title("City Latitude vs Cloudiness (World Cities)" , fontsize = 20)
plt.ylabel("Temperature (Farenheit)" , fontsize= 18)
plt.xlabel("Latitude", fontsize=18)
plt.grid(True)
fig_size = plt.rcParams["figure.figsize"]
fig_size[0] = 18
fig_size[1] = 9
plt.rcParams["figure.figsize"] = fig_size
plt.savefig("Images/LatitudeVsCloudiness.png")
plt.show()
```



In [14]:
```
# Build a scatter plot for Wind Speed vs. Latitude
sns.set()
plt.scatter(city_df_clean["Latitude"], city_df_clean["Wind Speed"], marker = "o" , co
plt.xlim(-100,100)
# Incorporate the other graph properties
plt.title("City Latitude vs Wind Speed (World Cities)" , fontsize = 20)
plt.ylabel("Temperature (Farenheit)" , fontsize= 18)
plt.xlabel("Latitude", fontsize=18)
plt.grid(True)
fig_size = plt.rcParams["figure.figsize"]
fig_size[0] = 18
fig_size[1] = 9
plt.rcParams["figure.figsize"] = fig_size
plt.savefig("Images/LatitudeVsWindspeed.png")
plt.show()
```


City Latitude vs Wind Speed (World Cities)
Temperature (Farenheit)
Latitude
35
30
25
20
15
10
5
0
−100
−75
−50
−25
0
25
50
75
100