1. Import Libraries

```
In [5]: import pandas as pd
import matplotlib.pyplot as plt
```

2. Load Datasets

```
In [6]: # Importing data frames
    df_climate = pd.read_csv("data/climate_change_indicators.csv")
    df_ugly = pd.read_csv("data/data_is_ugly.csv")
    df_weather = pd.read_csv("data/GlobalWeatherRepository.csv")
    df_sleep = pd.read_csv("data/Sleep_health_and_lifestyle_dataset.csv")
    df_imdb = pd.read_csv("data/IMDb_updated.csv")
```

3. Check Size and Structure

```
In [7]: # Preview dataset Climate
print("Dataset Size: {} rows, {} columns".format(df_climate.shape[0], df_climate.shape[1]
print(df_climate.head())
# Pass
```

```
Dataset Size: 225 rows, 72 columns
                                         Country ISO2 ISO3 \
           ObjectId
                 1 Afghanistan, Islamic Rep. of
                                                  AF AFG
        1
                                         Albania
                                                   AL ALB
        2
                 3
                                         Algeria
                                                   DZ DZA
        3
                 4
                                  American Samoa
                                                   AS ASM
                 5
        4
                                                  AD AND
                        Andorra, Principality of
                                                                      Unit \
                                                  Indicator
        0 Temperature change with respect to a baseline ...
                                                            Degree Celsius
          Temperature change with respect to a baseline ...
                                                            Degree Celsius
          Temperature change with respect to a baseline ...
                                                            Degree Celsius
          Temperature change with respect to a baseline ...
                                                            Degree Celsius
          Temperature change with respect to a baseline ...
                                                            Degree Celsius
                                                     Source CTS_Code \
          Food and Agriculture Organization of the Unite...
                                                                ECCS
        1 Food and Agriculture Organization of the Unite...
                                                               ECCS
        2 Food and Agriculture Organization of the Unite...
                                                               ECCS
        3 Food and Agriculture Organization of the Unite...
                                                               ECCS
        4 Food and Agriculture Organization of the Unite...
                                                               ECCS
                            CTS Name \
        0 Surface Temperature Change
        1 Surface Temperature Change
        2 Surface Temperature Change
        3 Surface Temperature Change
        4 Surface Temperature Change
                                        CTS_Full_Descriptor
                                                                 F2013 F2014 \
        0 Environment, Climate Change, Climate Indicator...
                                                                 1.281 0.456
                                                            . . .
        1 Environment, Climate Change, Climate Indicator...
                                                                 1.333 1.198
                                                            . . .
        2 Environment, Climate Change, Climate Indicator...
                                                                 1.192 1.690
                                                            . . .
        3 Environment, Climate Change, Climate Indicator... ...
                                                                 1.257 1.170
        4 Environment, Climate Change, Climate Indicator... ...
                                                                 0.831 1.946
           F2015
                 F2016 F2017 F2018 F2019 F2020 F2021 F2022
          1.093
                 1.555
                        1.540
                               1.544
                                      0.910
                                             0.498
                                                   1.327
                                                          2.012
          1.569
                 1.464
                        1.121 2.028
                                      1.675
                                            1.498 1.536 1.518
          1.121
                 1.757
                        1.512 1.210
                                      1.115
                                            1.926 2.330 1.688
        3 1.009 1.539 1.435 1.189 1.539 1.430 1.268 1.256
        4 1.690 1.990 1.925 1.919 1.964 2.562 1.533 3.243
        [5 rows x 72 columns]
In [8]: # Preview dataset Ugly
        print("Dataset Size: {} rows, {} columns".format(df_ugly.shape[0], df_ugly.shape[1]))
        print(df_ugly.head())
        # Not Pass, many links that are not working anymore
```

```
Dataset Size: 8596 rows, 10 columns
                             created_at \
           post_id
            xcmklj
                    2022-09-12 20:03:15
            xckzxj
                    2022-09-12 18:54:50
            xcd52w
                    2022-09-12 13:40:16
                    2022-09-12 12:30:07
            xcbjt6
            xcbjhv 2022-09-12 12:29:45
                                                         title link_flair_text
                                                                                 score
            Infographic that came with my North Carolina v...
                                                                            NaN
                                                                                     1
            You cannot tell me those are different shades ...
                                                                            NaN
                                                                                     1
                                                        Neymar
                                                                   Clusterfuck
                                                                                     1
         3
                      Youngest WORLD Number 1 In the OPEN ERA
                                                                            NaN
                                                                                     1
         4
                                             why the tails omg
                                                                            NaN
                                                                                     1
            num_comments
                            posted_by
                                                                  image_url \
                          TheTraceur https://i.redd.it/g5agzkcghhn91.jpg
         0
         1
                       0
                                Fnorv https://i.redd.it/1r4jft2i2fn91.jpg
         2
                       0
                          RedFlare07 https://i.redd.it/r6a3i6jllfn91.jpg
                          PhillyManc https://i.redd.it/cq2akup8kbn91.png
         3
                       0
         4
                          biglezmate https://i.redd.it/zv0nz7jmpcn91.png
                                                     full link
            https://www.reddit.com/r/dataisugly/comments/x...
                                                                False
            https://www.reddit.com/r/dataisugly/comments/x...
                                                                False
            https://www.reddit.com/r/dataisugly/comments/x... False
         3 https://www.reddit.com/r/dataisugly/comments/x...
                                                                False
         4 https://www.reddit.com/r/dataisugly/comments/x...
                                                                False
 In [9]: # Preview dataset Sleep
         print("Dataset Size: {} rows, {} columns".format(df sleep.shape[0], df sleep.shape[1]))
         print(df_sleep.head())
         # Not Pass, too small for this objective
         Dataset Size: 374 rows, 13 columns
                                              Occupation Sleep Duration \
            Person ID Gender Age
                        Male
                                       Software Engineer
         0
                    1
                               27
                                                                     6.1
         1
                    2
                        Male
                                                  Doctor
                                                                     6.2
                               28
         2
                    3
                        Male
                                28
                                                  Doctor
                                                                      6.2
         3
                    4
                        Male
                               28 Sales Representative
                                                                      5.9
         4
                    5
                        Male
                               28
                                   Sales Representative
                                                                      5.9
            Quality of Sleep
                              Physical Activity Level Stress Level BMI Category \
         0
                            6
                                                    42
                                                                   6
                                                                       Overweight
         1
                            6
                                                    60
                                                                   8
                                                                            Normal
         2
                            6
                                                    60
                                                                   8
                                                                            Normal
         3
                            4
                                                    30
                                                                   8
                                                                             0bese
         4
                                                    30
                                                                             0bese
           Blood Pressure Heart Rate Daily Steps Sleep Disorder
                   126/83
                                               4200
         0
                                    77
                                                               NaN
                   125/80
                                    75
                                              10000
                                                               NaN
         1
         2
                   125/80
                                    75
                                              10000
                                                               NaN
         3
                   140/90
                                    85
                                               3000
                                                       Sleep Apnea
         4
                   140/90
                                    85
                                               3000
                                                       Sleep Apnea
In [94]: # Preview dataset Weather
         print("Dataset Size: {} rows, {} columns".format(df_weather.shape[0], df_weather.shape[1]
         print(df weather.head())
         # Pass
```

```
Dataset Size: 40346 rows, 41 columns
                            location_name latitude longitude
                country
                                                                      timezone \
            Afghanistan
                                    Kabul
                                              34.52
                                                         69.18
                                                                     Asia/Kabul
         1
                Albania
                                   Tirana
                                              41.33
                                                          19.82
                                                                  Europe/Tirane
         2
                Algeria
                                  Algiers
                                              36.76
                                                          3.05 Africa/Algiers
         3
                Andorra La Vella
                                              42.50
                                                          1.52 Europe/Andorra
         4
                                              -8.84
                                                          13.23
                 Angola
                                   Luanda
                                                                Africa/Luanda
            last_updated_epoch
                                    last_updated temperature_celsius
         0
                                2023-08-29 14:00
                    1693301400
                                                                  28.8
         1
                                                                  27.0
                    1693301400
                                2023-08-29 11:30
         2
                    1693301400
                                2023-08-29 10:30
                                                                  28.0
         3
                    1693301400
                                2023-08-29 11:30
                                                                  10.2
         4
                    1693301400
                                2023-08-29 10:30
                                                                  25.0
            temperature_fahrenheit condition_text
                                                        air_quality_PM2.5 \
         0
                              83.8
                                             Sunny
                                                                      7.9
         1
                              80.6 Partly cloudy
                                                                      28.2
         2
                              82.4 Partly cloudy
                                                                       6.4
         3
                              50.4
                                                                       0.5
                                            Sunny
         4
                              77.0 Partly cloudy
                                                                     139.6
            air_quality_PM10 air_quality_us-epa-index air_quality_gb-defra-index \
         0
                        11.1
                                                      1
         1
                        29.6
                                                      2
                                                                                 3
         2
                         7.9
                                                      1
                                                                                 1
         3
                         0.8
                                                      1
                                                                                 1
         4
                       203.3
                                                      4
                                                                                10
             sunrise
                        sunset moonrise
                                           moonset
                                                        moon_phase moon_illumination
            05:24 AM
                      06:24 PM
                                05:39 PM
                                          02:48 AM Waxing Gibbous
                                06:50 PM
            06:04 AM
                                          03:25 AM
                                                    Waxing Gibbous
                                                                                    93
         1
                      07:19 PM
            06:16 AM
                      07:21 PM
                                06:46 PM
                                          03:50 AM
                                                    Waxing Gibbous
                                                                                    93
         3
                      08:34 PM
                                                                                    93
            07:16 AM
                                08:08 PM
                                          04:38 AM
                                                    Waxing Gibbous
            06:11 AM
                      06:06 PM
                                04:43 PM
                                          04:41 AM
                                                    Waxing Gibbous
                                                                                    93
         [5 rows x 41 columns]
In [10]: # Preview dataset IMDB movies
         print("Dataset Size: {} rows, {} columns".format(df_imdb.shape[0], df_imdb.shape[1]))
         print(df_imdb.head())
         # Pass
         Dataset Size: 10000 rows, 6 columns
            Unnamed: 0
                                                  title \
                     0
                                              Ad Astra
         1
                     1
                                             Bloodshot
         2
                     2
                                     Bad Boys for Life
         3
                     3
                                               Ant-Man
                        Percy Jackson: Sea of Monsters
                                                     overview original_language
            The near future, a time when both hope and har...
         1 After he and his wife are murdered, marine Ray...
                                                                              en
         2 Marcus and Mike are forced to confront new thr...
                                                                              en
         3 Armed with the astonishing ability to shrink i...
                                                                              en
            In their quest to confront the ultimate evil, ...
            vote count vote average
                  2853
                                 5.9
         0
         1
                  1349
                                 7.2
         2
                  2530
                                 7.1
         3
                                 7.1
                 13611
         4
                  3542
                                 5.9
```

```
In [11]: # Data types climate
         print(df_climate.dtypes)
         print(df_climate.isnull().sum())
         ObjectId
                       int64
                       object
         Country
         IS02
                       object
         IS03
                       object
         Indicator
                       object
         F2018
                      float64
         F2019
                      float64
         F2020
                      float64
         F2021
                      float64
         F2022
                      float64
         Length: 72, dtype: object
         ObjectId
                      0
                       0
         Country
                       2
         IS02
         IS03
         Indicator
                       0
                      . .
         F2018
                      12
                      12
         F2019
         F2020
                      13
         F2021
                      12
         F2022
                      12
         Length: 72, dtype: int64
In [103...  # Data types Weather
         print(df_weather.dtypes)
         print(df_weather.isnull().sum())
```

country	object
location_name	object
latitude	float64
	float64
longitude	
timezone	object
last_updated_epoch	int64
last_updated	object
temperature_celsius	float64
temperature_fahrenheit	float64
condition_text	object
	_
wind_mph	float64
wind_kph	float64
wind_degree	int64
wind_direction	object
pressure_mb	float64
pressure_in	float64
precip_mm	float64
	float64
precip_in	
humidity	int64
cloud	int64
feels_like_celsius	float64
feels_like_fahrenheit	float64
visibility_km	float64
visibility_miles	float64
uv_index	float64
gust_mph	float64
gust_kph	float64
air_quality_Carbon_Monoxide	float64
air_quality_Ozone	float64
air_quality_Nitrogen_dioxide	float64
	float64
air_quality_Sulphur_dioxide	
air_quality_PM2.5	float64
air_quality_PM10	float64
air_quality_us-epa-index	int64
air_quality_gb-defra-index	int64
sunrise	object
sunset	object
moonrise	
	object
moonset	object
moon_phase	object
moon_illumination	int64
dtype: object	
country	0
location_name	0
	0
latitude	
longitude	0
timezone	0
last_updated_epoch	0
last_updated	0
temperature_celsius	0
temperature_fahrenheit	0
condition_text	0
wind_mph	0
wind_kph	0
wind_degree	0
wind_direction	0
pressure_mb	0
pressure_in	0
	0
precip_mm	
precip_in	0
humidity	0
cloud	0
feels_like_celsius	0
feels_like_fahrenheit	0
visibility_km	0
	0
visibility_miles	
uv_index	0

```
0
          gust_mph
                                           0
          gust_kph
                                           0
          air_quality_Carbon_Monoxide
                                           0
          air_quality_Ozone
          air_quality_Nitrogen_dioxide
          air_quality_Sulphur_dioxide
          air_quality_PM2.5
                                           0
          air_quality_PM10
                                           0
          air_quality_us-epa-index
                                           0
          air_quality_gb-defra-index
                                           0
          sunrise
                                           0
          sunset
                                           0
                                           0
         moonrise
                                           0
         moonset
                                           0
         moon_phase
                                           0
          moon_illumination
          dtype: int64
In [12]: # Data types IMDB
          print(df_imdb.dtypes)
          print(df_imdb.isnull().sum())
          Unnamed: 0
                                 int64
          title
                                object
          overview
                                object
          original_language
                                object
          vote_count
                                  int64
          vote_average
                               float64
          dtype: object
                                0
          Unnamed: 0
                                0
          title
                               30
          overview
          original_language
                                0
                                0
          vote_count
                                0
          vote_average
```

5. Statistical Summary

dtype: int64

```
In [108... # Descriptive Statistics for Climate data
    print(df_climate.describe())
    # Pass
```

```
count 225.000000
                    188.000000
                                189.000000
                                             188.000000
                                                          188.000000
                                                                       188.000000
mean
       113.000000
                      0.163053
                                 -0.013476
                                              -0.006043
                                                           -0.070059
                                                                        -0.247027
        65.096083
                      0.405080
                                   0.341812
                                               0.387348
                                                            0.309305
                                                                         0.270734
std
         1.000000
                     -0.694000
                                  -0.908000
                                               -1.270000
                                                           -0.877000
min
                                                                        -1.064000
25%
        57.000000
                     -0.097000
                                  -0.164000
                                               -0.205500
                                                           -0.236500
                                                                        -0.392500
50%
       113.000000
                      0.064500
                                  -0.056000
                                               -0.003000
                                                           -0.056000
                                                                        -0.230500
75%
       169.000000
                      0.318500
                                   0.114000
                                               0.230500
                                                            0.132500
                                                                        -0.091500
       225.000000
                      1.892000
                                   0.998000
                                               1.202000
                                                            1.097000
max
                                                                         0.857000
            F1966
                         F1967
                                      F1968
                                                   F1969
                                                                     F2013 \
       192.000000
                    191.000000
                                191.000000
                                             190.000000
                                                               216,000000
count
                                                          . . .
                     -0.110832
                                 -0.199110
mean
         0.105505
                                               0.157942
                                                                  0.931199
                                                          . . .
std
         0.378423
                      0.339484
                                   0.270131
                                               0.308540
                                                                  0.321595
                                                          . . .
min
        -1.801000
                     -1.048000
                                 -1.634000
                                               -0.900000
                                                                  0.118000
25%
        -0.035750
                     -0.259500
                                  -0.340000
                                               -0.009000
                                                          . . .
                                                                  0.743500
50%
         0.098000
                     -0.146000
                                 -0.187000
                                               0.204000
                                                                  0.897000
                                                          . . .
75%
         0.277000
                      0.015000
                                 -0.067000
                                               0.349000
                                                                  1.187500
                                                          . . .
         1.151000
                      1.134000
                                   0.476000
                                               0.939000
                                                                  1.643000
max
            F2014
                         F2015
                                      F2016
                                                   F2017
                                                               F2018
                                                                            F2019
count 216.000000
                    216.000000
                                 213.000000
                                             214.000000
                                                          213.000000
                                                                       213.000000
         1.114815
                      1.269773
                                   1.439521
                                               1.280785
                                                            1.302113
                                                                         1.443061
mean
                                   0.401091
std
         0.564903
                      0.462162
                                               0.393999
                                                            0.596786
                                                                         0.467510
min
        -0.092000
                     -0.430000
                                   0.250000
                                               0.017000
                                                            0.238000
                                                                         0.050000
25%
         0.744000
                      1.017750
                                   1.147000
                                               1.027500
                                                            0.865000
                                                                         1.169000
50%
         0.986500
                      1.215000
                                   1.446000
                                               1.282000
                                                            1.125000
                                                                         1.412000
75%
         1.335500
                      1.520500
                                   1.714000
                                               1.535000
                                                            1.834000
                                                                         1.698000
max
         2.704000
                      2.613000
                                   2.459000
                                               2.493000
                                                            2.772000
                                                                         2.689000
            F2020
                         F2021
                                      F2022
      212.000000
                    213.000000
                                213.000000
count
                      1.343531
                                   1.382113
mean
         1.552038
std
         0.621930
                      0.484692
                                   0.669279
min
         0.229000
                     -0.425000
                                  -1.305000
25%
                      1.019000
                                   0.878000
         1.161750
50%
         1.477000
                      1.327000
                                   1.315000
75%
         1.826250
                      1.629000
                                   1.918000
max
         3.691000
                      2.676000
                                   3.243000
```

F1962

F1963

F1964

F1965

\

F1961

ObjectId

[8 rows x 63 columns]

```
In [13]: # Descriptive Statistics for Weather data
    print(df_weather.describe())
    # Pass
```

```
latitude
                          longitude
                                     last_updated_epoch
                                                           temperature_celsius
       40346.000000
                      40346.000000
                                            4.034600e+04
                                                                  40346.000000
count
mean
          19.298562
                         21.760141
                                            1.702473e+09
                                                                      19.179078
                         65.682857
                                            5.363903e+06
                                                                      10.718576
std
          24.521626
min
         -41.300000
                       -175.200000
                                            1.693301e+09
                                                                     -41.900000
25%
           3.750000
                         -6.840000
                                            1.697662e+09
                                                                      12.000000
50%
          17.250000
                         23.240000
                                            1.702668e+09
                                                                      22.000000
75%
                                                                      27.000000
          41.320000
                         49.880000
                                            1.707156e+09
max
          64.100000
                        179.220000
                                            1.711556e+09
                                                                      45.400000
       temperature_fahrenheit
                                     wind mph
                                                    wind_kph
                                                                wind_degree
count
                  40346.000000
                                 40346.000000
                                                40346.000000
                                                               40346.000000
                     66.522233
                                     7.471611
                                                   12.027016
                                                                 162.518242
mean
std
                     19.293569
                                     5.172169
                                                    8.325958
                                                                 106.324676
min
                    -43.400000
                                     2.200000
                                                     3.600000
                                                                    1.000000
25%
                     53.600000
                                     3.800000
                                                     6.100000
                                                                  70.000000
50%
                                     5.800000
                                                     9.400000
                                                                  150.000000
                     71.600000
75%
                                    10.500000
                                                   16.900000
                                                                 250.000000
                     80.600000
                                                  148.000000
                                    91.900000
                                                                 360.000000
                    113.700000
max
        pressure_mb
                       pressure_in
                                               gust_kph
       40346.000000
count
                      40346.000000
                                           40346.000000
        1013.890943
                          29.939522
mean
                                              20.027718
                                      . . .
std
            7.437666
                           0.219491
                                              11.906650
min
         958.000000
                          28.290000
                                               0.000000
                                      . . .
25%
        1010.000000
                          29.830000
                                              11.100000
                                      . . .
50%
        1013.000000
                         29.910000
                                              18.000000
75%
        1018.000000
                          30.060000
                                              26.300000
max
        1074.000000
                          31.710000
                                             155.200000
       air_quality_Carbon_Monoxide
                                      air_quality_Ozone
                       40346.000000
                                            40346.000000
count
                          577.529794
                                               43.759971
mean
                        1382.216080
                                               32.658034
std
min
                           96.800000
                                                0.000000
25%
                                               18.400000
                          237.000000
50%
                          290.400000
                                               40.800000
75%
                          447.300000
                                               63.700000
                                              555.000000
max
                       41870.102000
       air_quality_Nitrogen_dioxide
                                       air_quality_Sulphur_dioxide
count
                        40346.000000
                                                        40346.000000
mean
                            14.511496
                                                            8.242131
std
                            27.044095
                                                           22.470273
min
                             0.000000
                                                            0.000000
25%
                             1.000000
                                                            0.500000
50%
                             4.500000
                                                            1.800000
75%
                            15.600000
                                                            6.400000
                           575.800000
                                                          557.000000
max
       air_quality_PM2.5
                            air_quality_PM10
                                               air_quality_us-epa-index
count
             40346.000000
                                 40346.00000
                                                            40346.000000
                25.276535
                                    45.65170
                                                                1.613791
mean
std
                63.684429
                                   106.59568
                                                                1.067879
min
                 0.500000
                                     0.50000
                                                                1.000000
25%
                 2.500000
                                     4.70000
                                                                1.000000
50%
                 7.500000
                                    12,90000
                                                                1.000000
75%
                23.000000
                                    39.50000
                                                                2.000000
                                  3566.40000
                                                                6.000000
max
              1558.800000
       air_quality_gb-defra-index
                                     moon_illumination
count
                      40346.000000
                                           40346.000000
mean
                           2,456427
                                              52,067268
std
                          2.682182
                                              35.314977
                                               0.000000
min
                          1.000000
25%
                                              17.000000
                          1.000000
50%
                           1.000000
                                              53.000000
```

```
75%
                                   2.000000
                                                     88.000000
                                  10.000000
                                                    100.000000
         max
         [8 rows x 30 columns]
In [112... # Descriptive Statistics for IMDB data
         print(df_imdb.describe())
         # Not Pass
                 Unnamed: 0
                                vote_count
                                           vote_average
         count 10000.00000 10000.000000
                                            10000.000000
                 4999.50000
                                                6.306230
         mean
                              1020.825100
         std
                 2886.89568
                               1992.305005
                                                1.354259
         min
                    0.00000
                                  0.000000
                                                0.000000
         25%
                 2499.75000
                                143.000000
                                                5.800000
         50%
                 4999.50000
                                332.000000
                                                6.500000
         75%
                 7499.25000
                                926.250000
                                                7.100000
                 9999.00000 25148.000000
                                               10.000000
         max
In [114...  # Descriptive Statistics for categorical IMDB data
         for column in df_imdb.select_dtypes(include=['object']).columns:
```

print(df_imdb[column].value_counts())

print("\n")

Not Pass

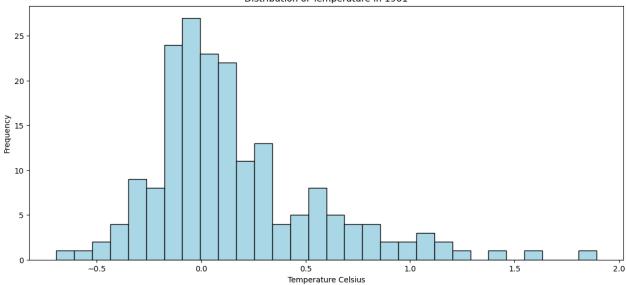
```
title
                                       4
Dracula
Beauty and the Beast
                                       4
Godzilla
                                       3
Fallen
                                       3
Les Misérables
                                       3
The Imaginarium of Doctor Parnassus
                                       1
Along Came Polly
                                       1
Grand Illusion
                                       1
Teenage Mutant Ninja Turtles III
                                       1
Woochi: The Demon Slayer
                                       1
Name: count, Length: 9689, dtype: int64
overview
Plot unknown.
The plot is unknown at this time.
Wilbur the pig is scared of the end of the season, because he knows that come that time,
he will end up on the dinner table. He hatches a plan with Charlotte, a spider that lives
in his pen, to ensure that this will never happen.
Bernie works at a Las Vegas casino, where he uses his innate ability to bring about misfo
rtune in those around him to jinx gamblers into losing. His imposing boss, Shelly Kaplow,
is happy with the arrangement. But Bernie finds unexpected happiness when he begins datin
g attractive waitress Natalie Belisario.
A fat Lawyer finds himself growing "Thinner" when an old gypsy man places a hex on him. N
ow the lawyer must call upon his friends in organized crime to help him persuade the gyps
y to lift the curse. Time is running out for the desperate lawyer as he draws closer to h
is own death, and grows ever thinner.
Six short stories that explore the extremities of human behavior involving people in dist
ress.
1
King Randolph sends for his cousin Duchess Rowena to help turn his daughters, Princess Ge
nevieve and her 11 sisters, into better ladies. But the Duchess takes away all the sister
s fun, including the sisters favorite pastime: dancing. Thinking all hope is lost they fin
d a secret passageway to a magical land were they can dance the night away.
An orphaned boy raised by underground creatures called Boxtrolls comes up from the sewers
and out of his box to save his family and the town from the evil exterminator, Archibald
Snatcher.
At an exclusive country club, an ambitious young caddy, Danny Noonan, eagerly pursues a c
addy scholarship in hopes of attending college and, in turn, avoiding a job at the lumber
yard. In order to succeed, he must first win the favour of the elitist Judge Smails, and
then the caddy golf tournament which Smails sponsors.
Spanning four centuries in Korea, this epic action-adventure concerns a powerful pipe and
a trio of wizards who will do anything to protect it.
Name: count, Length: 9964, dtype: int64
original_language
```

8326 en fr 385 jа 269 it 152 es 145 de 96 92 ko сn 72 71 7h hί 70 ru 69

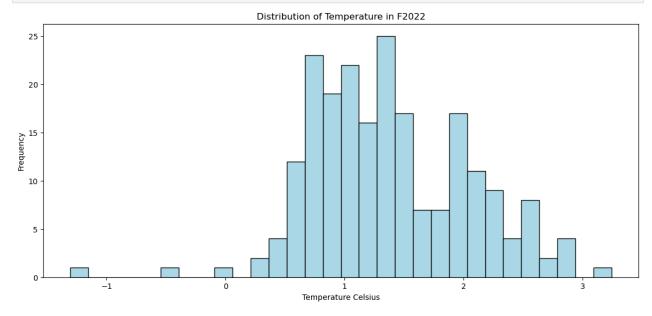
```
da
         32
         30
s۷
         22
pt
         21
id
ta
         18
nl
         13
         13
no
         12
tr
         10
pl
tl
          9
th
          9
ar
          6
          6
sr
te
          5
          5
fa
          4
CS
          4
ml
          4
he
fi
          3
hu
          3
          2
af
          2
el
          2
ro
ab
          1
lν
          1
mr
          1
ka
          1
          1
ms
          1
٧i
et
          1
eu
          1
sh
          1
          1
bs
          1
nb
          1
pa
la
          1
is
          1
XX
          1
mk
          1
sq
          1
uk
          1
Name: count, dtype: int64
```

6. Distribution Analysis

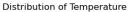
```
In [14]: #df_climate
    # Distribution of temperature in the first notation
    plt.figure(figsize=(14, 6))
    plt.hist(df_climate['F1961'], bins=30, color='lightblue', edgecolor='black')
    plt.title('Distribution of Temperature in 1961')
    plt.xlabel('Temperature Celsius')
    plt.ylabel('Frequency')
    plt.show()
```

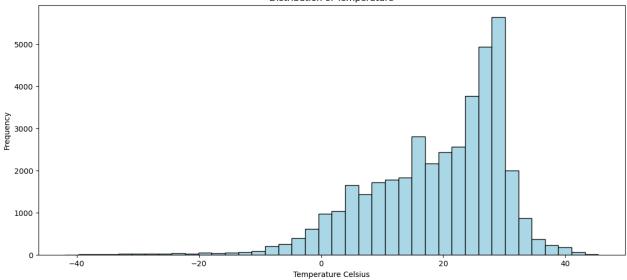


```
In [162... #df_climate
# Distribution of temperature in the last notation
plt.figure(figsize=(14, 6))
plt.hist(df_climate['F2022'], bins=30, color='lightblue', edgecolor='black')
plt.title('Distribution of Temperature in F2022')
plt.xlabel('Temperature Celsius')
plt.ylabel('Frequency')
plt.show()
```

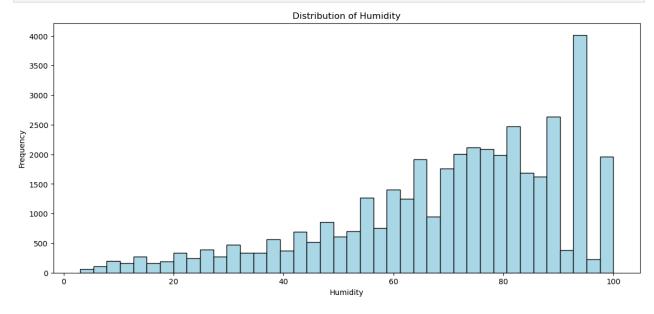


```
In [15]: #df_weather
# Distribution of temperature
plt.figure(figsize=(14, 6))
plt.hist(df_weather['temperature_celsius'], bins=40, color='lightblue', edgecolor='black'
plt.title('Distribution of Temperature')
plt.xlabel('Temperature Celsius')
plt.ylabel('Frequency')
plt.show()
```





```
In [16]: #df_weather
    # Distribution of Humidity
    plt.figure(figsize=(14, 6))
    plt.hist(df_weather['humidity'], bins=40, color='lightblue', edgecolor='black')
    plt.title('Distribution of Humidity')
    plt.xlabel('Humidity')
    plt.ylabel('Frequency')
    plt.show()
```



In []: