nyAnalysis

February 4, 2020

In [1]: import pandas as pd

```
import plotly.express as px
        import plotly.graph_objects as go
In [2]: df = pd.read_csv("terorrismWith30DayForward.csv")
   Prep The Data
In [3]: df.head()
                                                                   Country Perpetrator
Out[3]:
           Unnamed: 0
                              Date
                                                 City
                       1968-02-09
        0
                                        Buenos Aires
                                                                 Argentina
                                                                               Unknown
        1
                    1 1968-02-12
                                       Santo Domingo
                                                       Dominican Republic
                                                                               Unknown
        2
                    2 1968-02-13
                                          Montevideo
                                                                   Uruguay
                                                                               Unknown
        3
                    3 1968-02-20
                                                                     Chile
                                                                               Unknown
                                             Santiago
                       1968-02-21
                                    Washington, D.C.
                                                            United States
                                                                               Unknown
                      Weapon
                              Injuries
                                        Fatalities
        0
                   Firearms
        1
                 Explosives
                                                  0
           Fire or Firebomb
                                     0
                                                  0
        3
                 Explosives
                                     0
                                                  0
        4
                 Explosives
                                                  0
                                                   Description Closing Value
                                                                                index
                        The second floor of the U.S. embas...
                                                                         89.86
                                                                                    0
           DOMINICAN REPUBLIC. A homemade bomb was found...
                                                                           NaN
                                                                                    1
           URUGUAY.
                     A Molotov cocktail was thrown outsid...
                                                                         89.07
                                                                                    2
           CHILE. An explosion from a single stick of dy...
                                                                         91.24
                                                                                    3
           UNITED STATES. The Soviet embassy was bombed ...
                                                                         91.24
                            max5DayChange
                                           min5DayChange
                                                           mean30DayChange
           mean5DayChange
        0
                    0.188
                                     1.04
                                                    -1.07
                                                                   0.085667
        1
                    0.188
                                     1.04
                                                    -1.07
                                                                   0.085667
                                     0.79
        2
                    -0.090
                                                    -1.07
                                                                  0.031000
        3
                    -0.044
                                     0.71
                                                    -0.93
                                                                  -0.077667
        4
                    0.232
                                     0.71
                                                    -0.35
                                                                  -0.074333
```

```
max30DayChange min30DayChange
       0
                     1.71
                                    -1.54
                     1.71
        1
                                    -1.54
        2
                     1.71
                                    -1.54
        3
                                    -2.28
                     1.71
        4
                     1.71
                                    -2.28
In [4]: df.drop("Unnamed: 0",axis=1,inplace=True)
In [5]: df["Date"] = pd.to_datetime(df["Date"])
In [6]: df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 40129 entries, 0 to 40128
Data columns (total 16 columns):
                   40129 non-null datetime64[ns]
Date
                   35155 non-null object
City
                   40129 non-null object
Country
Perpetrator
                   40125 non-null object
Weapon
                   40126 non-null object
                   40129 non-null int64
Injuries
                   40129 non-null int64
Fatalities
Description
                   40128 non-null object
Closing Value
                   28198 non-null float64
index
                   40129 non-null int64
mean5DayChange
                   40129 non-null float64
max5DayChange
                   40129 non-null float64
min5DayChange
                   40129 non-null float64
mean30DayChange
                   40129 non-null float64
max30DayChange
                   40129 non-null float64
min30DayChange
                   40129 non-null float64
dtypes: datetime64[ns](1), float64(7), int64(3), object(5)
memory usage: 4.9+ MB
0.2 Start Analysis
In [7]: country = df.groupby("Country").mean()
In [8]: country.head()
Out[8]:
                     Injuries Fatalities Closing Value
                                                                 index \
        Country
        Afghanistan 2.364938
                                 2.074074
                                             1170.102256 30296.977778
        Albania
                     0.370370
                                 0.111111
                                             1063.018000 12189.129630
        Algeria
                     5.924765
                                 4.081505
                                             1073.761624 17945.097179
        Angola
                     2.958904
                                 4.904110
                                              486.153846 6194.219178
        Argentina
                     1.932584
                                 0.655431
                                             203.450681
                                                           2953.808989
```

```
mean5DayChange max5DayChange min5DayChange mean30DayChange \
        Country
        Afghanistan
                           0.004563
                                          17.114681
                                                        -17.012099
                                                                            0.012726
        Albania
                           -0.995037
                                          12.552963
                                                        -13.650185
                                                                           -1.141901
        Algeria
                           -0.281248
                                          12.825987
                                                         -12.941254
                                                                           -0.134844
        Angola
                           -0.326384
                                           5.283151
                                                         -6.615479
                                                                            0.078155
        Argentina
                           -0.164719
                                           1.572659
                                                          -1.953296
                                                                           -0.123870
                     max30DayChange
                                     min30DayChange
        Country
        Afghanistan
                          29.793679
                                          -29.232227
                                          -23.677778
        Albania
                          22.327222
                                          -23.476050
        Algeria
                          26.327241
                                          -11.297534
        Angola
                          11.569726
        Argentina
                           3.116367
                                           -3.505581
In [9]: us = df.loc[df["Country"] == "United States"]
In [10]: us.head()
Out[10]:
                  Date
                                     City
                                                 Country
                                                                  Perpetrator \
                                           United States
         4 1968-02-21 Washington, D.C.
                                                                      Unknown
         19 1968-03-19
                                    Miami
                                           United States Anti-Castro Cubans
         23 1968-04-22
                           New York City
                                           United States
                                                          Anti-Castro Cubans
         24 1968-04-22
                           New York City
                                           United States
                                                          Anti-Castro Cubans
         30 1968-05-24
                                 Key West
                                           United States
                                                          Anti-Castro Cubans
                 Weapon
                         Injuries
                                   Fatalities
             Explosives
         4
                                             0
         19 Explosives
                                 0
                                             0
         23 Explosives
                                 0
                                             0
         24 Explosives
                                 0
                                             0
         30 Explosives
                                 0
                                             0
                                                    Description Closing Value
                                                                                 index
             UNITED STATES.
                             The Soviet embassy was bombed ...
                                                                          91.24
                                                                                     4
         19 UNITED STATES - Unidentified anti-Castro Cuban...
                                                                          88.99
                                                                                    19
                             The Mexican mission to the Uni...
                                                                          95.32
         23 UNITED STATES.
                                                                                    23
         24 UNITED STATES.
                             The Spanish National Tourist O...
                                                                          95.32
                                                                                    24
         30 UNITED STATES.
                             The British cargo ship Granwoo...
                                                                          97.15
                                                                                    30
                             max5DayChange min5DayChange mean30DayChange
             mean5DayChange
                                       0.71
         4
                      0.232
                                                     -0.35
                                                                   -0.074333
                                                     -0.09
         19
                      0.252
                                       0.65
                                                                   -0.279333
         23
                     -0.272
                                       0.53
                                                     -1.30
                                                                   -0.138000
         24
                     -0.272
                                       0.53
                                                     -1.30
                                                                   -0.138000
                                       0.16
                                                     -0.76
         30
                     -0.342
                                                                   -0.176333
```

```
max30DayChange min30DayChange
         4
                       1.71
                                       -2.28
         19
                       1.23
                                       -2.28
         23
                       0.70
                                      -1.31
         24
                       0.70
                                       -1.31
         30
                       1.00
                                       -1.52
In [11]: cities = []
         for city in us["City"]:
             if city == "Washington, DC":
                 cities.append("Washington, D.C.")
             else:
                 cities.append(city)
In [12]: us["City"] = cities
C:\Users\cywon\newAnaconda3\lib\site-packages\ipykernel_launcher.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#
In [13]: cityValueCounts = (pd.DataFrame(us["City"].value_counts())).reset_index()
         cityValueCounts.columns = ["City", "Number of Attacks"]
In [14]: cityValueCounts.head()
Out [14]:
                        City Number of Attacks
               New York City
                                             167
                       Miami
                                              59
         2 Washington, D.C.
                                              44
         3
                 Los Angeles
                                             39
         4
               San Francisco
                                               9
In [15]: injuriesAndFatalities = us.groupby("City").mean()[["Injuries", "Fatalities"]].sort_value
In [16]: usCityStats = pd.merge(cityValueCounts,injuriesAndFatalities,on="City")
In [17]: usCityStats.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 123 entries, 0 to 122
Data columns (total 4 columns):
                     123 non-null object
City
```

```
Number of Attacks
                    123 non-null int64
                     123 non-null float64
Injuries
Fatalities
                     123 non-null float64
dtypes: float64(2), int64(1), object(1)
memory usage: 4.8+ KB
In [18]: fig = px.bar(usCityStats[:10], x='City', y='Number of Attacks',
                      hover_data=['Fatalities', 'Injuries'], color='Number of Attacks')
         fig.write_html('attackAndFatalitiesAndInjuriesByCity.html', auto_open=False)
         fig.show()
In [19]: newYork = us.loc[us["City"] == "New York City"]
In [20]: newYork.head()
Out [20]:
                  Date
                                 City
                                             Country
                                                             Perpetrator
                                                                               Weapon
         23 1968-04-22 New York City United States Anti-Castro Cubans Explosives
         24 1968-04-22 New York City United States Anti-Castro Cubans
                                                                          Explosives
         33 1968-05-30 New York City United States Anti-Castro Cubans
                                                                          Explosives
         37 1968-06-21 New York City United States Anti-Castro Cubans
                                                                           Explosives
         38 1968-07-04 New York City United States Anti-Castro Cubans
                                                                          Explosives
             Injuries Fatalities
                                                                          Description
                                                   The Mexican mission to the Uni...
         23
                    0
                                  UNITED STATES.
                    0
         24
                                O UNITED STATES.
                                                   The Spanish National Tourist O...
         33
                    0
                                O UNITED STATES - El Poder Cubano bombed the Spa...
         37
                    0
                                O UNITED STATES.
                                                   The Spanish National Tourist O...
                                O UNITED STATES.
                                                   The Canadian consulate and tou...
         38
                    0
             Closing Value index mean5DayChange max5DayChange min5DayChange
         23
                     95.32
                               23
                                           -0.272
                                                            0.53
                                                                           -1.30
         24
                     95.32
                               24
                                           -0.272
                                                            0.53
                                                                           -1.30
         33
                       NaN
                               33
                                           -0.454
                                                            0.49
                                                                           -1.31
         37
                    100.66
                               37
                                            0.386
                                                            0.85
                                                                           0.10
         38
                               38
                                           -0.520
                                                            0.05
                                                                           -1.17
                       NaN
             mean30DayChange max30DayChange min30DayChange
         23
                   -0.138000
                                        0.70
         24
                   -0.138000
                                        0.70
                                                       -1.31
         33
                   -0.094667
                                        1.00
                                                       -1.52
         37
                    0.099333
                                        1.27
                                                       -1.17
         38
                    0.026667
                                        1.27
                                                       -1.17
```

In [22]: newYork = pd.DataFrame(newYork.groupby(newYork.columns.tolist(),as_index=False).size())

In [21]: fig = px.scatter(newYork, x="Date", y="Fatalities",color="Weapon",size="max30DayChange"

fig.show()

```
In [24]: newYork.columns
Out[24]: Index([
                           'Date',
                                               'City',
                                                               'Country',
                    'Perpetrator',
                                           'Weapon',
                                                              'Injuries',
                                        'Description',
                     'Fatalities',
                                                         'Closing Value',
                          'index',
                                    'mean5DayChange',
                                                         'max5DayChange',
                  'min5DayChange', 'mean30DayChange',
                                                        'max30DayChange',
                 'min30DayChange',
                                                    0],
               dtype='object')
In [25]: newYork.columns= ['Date', 'City', 'Country', 'Perpetrator', 'Weapon', 'Injuries', 'Fatal
In [26]: newYork.head()
Out [26]:
                 Date
                                                                              Weapon \
                                City
                                             Country
                                                             Perpetrator
         O 1968-04-22 New York City United States Anti-Castro Cubans Explosives
         1 1968-04-22 New York City United States Anti-Castro Cubans Explosives
         2 1968-06-21 New York City United States Anti-Castro Cubans Explosives
         3 1968-07-09 New York City United States Anti-Castro Cubans Explosives
         4 1968-07-09 New York City United States Anti-Castro Cubans Explosives
            Injuries
                      Fatalities
                                                                         Description \
         0
                   0
                                 UNITED STATES. The Mexican mission to the Uni...
                               O UNITED STATES. The Spanish National Tourist O...
         1
                   0
                               O UNITED STATES. The Spanish National Tourist O...
         2
                   0
                               O UNITED STATES. The Cuban mission to the Unite...
         3
                   0
                   0
                                  UNITED STATES. The Yugoslav mission to the Un...
                                  mean5DayMarketChange max5DayMarketChange
            Closing Value Index
                    95.32
                                                 -0.272
                                                                        0.53
         0
                              23
                    95.32
         1
                              24
                                                 -0.272
                                                                        0.53
         2
                   100.66
                              37
                                                  0.386
                                                                        0.85
         3
                   102.23
                              42
                                                  0.048
                                                                        0.56
                   102.23
                              41
                                                  0.048
                                                                        0.56
            min5DayMarketChange mean30DayMarketChange
                                                         max30DayMarketChange
         0
                          -1.30
                                              -0.138000
                                                                         0.70
                          -1.30
                                                                         0.70
         1
                                              -0.138000
         2
                           0.10
                                               0.099333
                                                                         1.27
         3
                          -0.29
                                                                         1.27
                                               0.106667
         4
                          -0.29
                                               0.106667
                                                                         1.27
            min30DayMarketChange
                                 Number of Attacks
         0
                           -1.31
                                                   1
         1
                           -1.31
                                                   1
         2
                                                   1
                           -1.17
         3
                           -1.00
                                                   1
         4
                           -1.00
                                                   1
```

```
In [27]: shortDescs = []
         for desc in newYork["Description"]:
             shortDesc = desc[:80] + "..."
             shortDescs.append(shortDesc)
In [28]: newYork["Short Description"] = shortDescs
In [29]: newYork["mean5DayMarketChangeAbs"] = [abs(x) for x in newYork["mean5DayMarketChange"]]
In [30]: newYork.head()
Out[30]:
                                                             Perpetrator
                                                                              Weapon \
                 Date
                                City
                                            Country
         O 1968-04-22 New York City United States Anti-Castro Cubans
                                                                        Explosives
         1 1968-04-22 New York City United States Anti-Castro Cubans Explosives
         2 1968-06-21 New York City United States Anti-Castro Cubans
                                                                          Explosives
         3 1968-07-09 New York City United States Anti-Castro Cubans Explosives
         4 1968-07-09 New York City United States Anti-Castro Cubans Explosives
                                                                         Description \
            Injuries Fatalities
         0
                                 UNITED STATES. The Mexican mission to the Uni...
                   0
                               0
         1
                   0
                               O UNITED STATES. The Spanish National Tourist O...
                                 UNITED STATES.
         2
                                                  The Spanish National Tourist O...
         3
                                 UNITED STATES.
                                                  The Cuban mission to the Unite...
                               O UNITED STATES.
                                                  The Yugoslav mission to the Un...
                                 mean5DayMarketChange max5DayMarketChange
            Closing Value
                           Index
         0
                    95.32
                                                -0.272
                                                                        0.53
                              23
                    95.32
                                                -0.272
                              24
                                                                        0.53
         1
         2
                   100.66
                              37
                                                 0.386
                                                                        0.85
         3
                   102.23
                              42
                                                 0.048
                                                                        0.56
                   102.23
                                                 0.048
                                                                        0.56
                              41
            min5DayMarketChange mean30DayMarketChange
                                                        max30DayMarketChange
         0
                          -1.30
                                             -0.138000
                                                                         0.70
                                             -0.138000
         1
                          -1.30
                                                                         0.70
         2
                           0.10
                                              0.099333
                                                                         1.27
                                                                         1.27
         3
                          -0.29
                                              0.106667
         4
                          -0.29
                                              0.106667
                                                                         1.27
            min30DayMarketChange
                                  Number of Attacks
         0
                           -1.31
                                                  1
                           -1.31
         1
                                                  1
         2
                                                  1
                           -1.17
         3
                           -1.00
                                                   1
         4
                           -1.00
                                            Short Description mean5DayMarketChangeAbs
         O UNITED STATES.
                            The Mexican mission to the Uni...
                                                                                  0.272
                            The Spanish National Tourist O...
                                                                                  0.272
         1 UNITED STATES.
```

```
2 UNITED STATES.
                            The Spanish National Tourist O...
                                                                                  0.386
                            The Cuban mission to the Unite...
                                                                                  0.048
         3 UNITED STATES.
         4 UNITED STATES.
                            The Yugoslav mission to the Un...
                                                                                  0.048
In [31]: fig = px.scatter(newYork, x="Date", y="min30DayMarketChange",color="Weapon",size="mean5
         fig.show()
In [32]: fig = px.scatter(newYork, x="Date", y="max30DayMarketChange",color="Weapon",size="mean5
         fig.show()
In [33]: newYork.head()
Out[33]:
                 Date
                                City
                                            Country
                                                             Perpetrator
                                                                              Weapon \
         O 1968-04-22 New York City United States Anti-Castro Cubans Explosives
         1 1968-04-22 New York City United States Anti-Castro Cubans Explosives
         2 1968-06-21 New York City United States Anti-Castro Cubans Explosives
         3 1968-07-09 New York City United States Anti-Castro Cubans Explosives
         4 1968-07-09 New York City United States Anti-Castro Cubans Explosives
                                                                         Description \
            Injuries Fatalities
         0
                                 UNITED STATES. The Mexican mission to the Uni...
                               O UNITED STATES. The Spanish National Tourist O...
         2
                   0
                               O UNITED STATES. The Spanish National Tourist O...
         3
                   0
                                 UNITED STATES. The Cuban mission to the Unite...
                                 UNITED STATES. The Yugoslav mission to the Un...
            Closing Value
                                  mean5DayMarketChange
                                                       max5DayMarketChange
                           Index
         0
                    95.32
                                                -0.272
                              23
                                                                        0.53
                    95.32
                                                -0.272
         1
                              24
                                                                        0.53
                   100.66
                              37
                                                 0.386
                                                                        0.85
         3
                   102.23
                                                 0.048
                                                                        0.56
                              42
                   102.23
                                                                        0.56
                              41
                                                 0.048
                                                       {\tt max30DayMarketChange}
            min5DayMarketChange mean30DayMarketChange
         0
                          -1.30
                                             -0.138000
                                                                         0.70
                          -1.30
         1
                                              -0.138000
                                                                        0.70
         2
                           0.10
                                              0.099333
                                                                         1.27
         3
                          -0.29
                                              0.106667
                                                                        1.27
         4
                          -0.29
                                              0.106667
                                                                         1.27
                                  Number of Attacks
            min30DayMarketChange
         0
                           -1.31
                           -1.31
                                                  1
         1
         2
                           -1.17
                                                   1
         3
                           -1.00
                                                  1
                           -1.00
```

O UNITED STATES. The Mexican mission to the Uni...

Short Description mean5DayMarketChangeAbs

0.272

```
1 UNITED STATES.
                            The Spanish National Tourist O...
         2 UNITED STATES. The Spanish National Tourist O...
         3 UNITED STATES.
                            The Cuban mission to the Unite...
         4 UNITED STATES.
                            The Yugoslav mission to the Un...
In [34]: nyPerpGroupBy = newYork.groupby("Perpetrator")
In [35]: nyPerpGroupBy.sum()[["Fatalities"]]["Fatalities"]
Out[35]: Perpetrator
                                                              2749
         Al Qaeda
         Anti-Castro Cubans
                                                                 2
         Armed Revolutionary Independence Movement (MIRA)
                                                                 0
         Black Revolutionary Assault Team
                                                                 0
         Black September
                                                                 0
         Croatian Freedom Fighters
                                                                 0
         Fuerzas Armadas de Liberacion Nacional (FALN)
                                                                 0
         Jewish Defense League (JDL)
                                                                 1
                                                                 6
         Liberation Army Fifth Battalion
                                                                 2
         Other
         Palestine Liberation Organization (PLO)
                                                                11
         Puerto Rican Resistance Movement
                                                                 0
         United Freedom Front (UFF)
                                                                 0
         Unknown
                                                                 2
         World United Formosans for Independence
                                                                 0
         Yanikian Commandos
                                                                 0
         Name: Fatalities, dtype: int64
In [36]: fig = go.Figure()
         fig.add_trace(go.Bar(
             x=nyPerpGroupBy.sum().index,
             y=nyPerpGroupBy.sum()["Fatalities"],
             marker_color = px.colors.colorbrewer.Paired
         ))
         fig.update_layout(
             title=go.layout.Title(
                 text="Number of Fatalities by Perpetrator of Attack",
                 font=dict(
                         family="Roboto, monospace",
                         size=25,
                         color="Black"
                 ),
                 xref="paper",
                 0=x
             ),
             xaxis=go.layout.XAxis(
                 title=go.layout.xaxis.Title(
                     text="Perpetrator ",
                     font=dict(
```

0.272

0.386

0.048

0.048

```
family="Roboto, monospace",
                         size=18,
                         color="#7f7f7f"
                     )
                 )
             ),
             yaxis=go.layout.YAxis(
                 title=go.layout.yaxis.Title(
                     text="Number of Attacks",
                     font=dict(
                         family="Roboto, monospace",
                         size=18,
                         color="#7f7f7f"
                     )
                 )
             )
         )
         fig.write_html('nyFatalitiesByPerppetrator.html', auto_open=False)
         fig.show()
In [37]: nyWithout911 = newYork[newYork.Date != "2001-09-11"]
In [38]: nyPerpGroupByWithout911 = nyWithout911.groupby("Perpetrator")
In [48]: fig = go.Figure()
         fig.add_trace(go.Bar(
             x=nyPerpGroupByWithout911.sum().index,
             y=nyPerpGroupByWithout911.sum()["Fatalities"].sort_values(ascending=False),
             marker_color = px.colors.colorbrewer.Paired
         ))
         fig.update_layout(
             title=go.layout.Title(
                 text="Number of Fatalities by Perpetrator of Attack",
                 font=dict(
                         family="Roboto, monospace",
                         size=25,
                         color="Black"
                 ),
                 xref="paper",
                 x=0
             ),
             xaxis=go.layout.XAxis(
                 title=go.layout.xaxis.Title(
                     text="Perpetrator ",
                     font=dict(
                         family="Roboto, monospace",
                         size=18,
                         color="#7f7f7f"
```

```
)
                 )
             ),
             yaxis=go.layout.YAxis(
                 title=go.layout.yaxis.Title(
                     text="Number of Attacks",
                     font=dict(
                         family="Roboto, monospace",
                         size=18,
                         color="#7f7f7f"
                     )
                 )
             )
         fig.write_html('nyFatalitiesByPerppetrator.html', auto_open=False)
         fig.show()
In []:
0.3 US
In [40]: us.head(1)
Out[40]:
                 Date
                                   City
                                               Country Perpetrator
                                                                        Weapon \
         4 1968-02-21 Washington, D.C. United States
                                                           Unknown Explosives
                                                                        Description \
            Injuries Fatalities
                                 UNITED STATES. The Soviet embassy was bombed ...
            Closing Value index mean5DayChange max5DayChange min5DayChange \
                    91.24
                                           0.232
                                                           0.71
                                                                         -0.35
            mean30DayChange max30DayChange min30DayChange
                  -0.074333
                                       1.71
                                                      -2.28
In [41]: us["mean5DayChangeAbs"] = [abs(x) for x in us["mean5DayChange"]]
C:\Users\cywon\newAnaconda3\lib\site-packages\ipykernel_launcher.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#
```

In [42]: us["max30DayChangeAbs"] = [abs(x) for x in us["max30DayChange"]]

```
C:\Users\cywon\newAnaconda3\lib\site-packages\ipykernel_launcher.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#
In [43]: shortDescs = []
        for desc in us["Description"]:
            shortDesc = desc[:80] + "..."
            shortDescs.append(shortDesc)
        us["shortDescription"] = shortDescs
C:\Users\cywon\newAnaconda3\lib\site-packages\ipykernel_launcher.py:5: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#
In [44]: us.loc[us["City"] == "New York City"]
Out[44]:
                    Date
                                   City
                                               Country \
        23
              1968-04-22 New York City United States
        24
              1968-04-22 New York City United States
              1968-05-30 New York City United States
        33
        37
              1968-06-21 New York City United States
        38
              1968-07-04 New York City United States
        39
              1968-07-04 New York City United States
        40
              1968-07-07 New York City United States
              1968-07-09 New York City United States
        41
        42
              1968-07-09 New York City United States
              1968-07-15 New York City United States
        45
              1968-07-15 New York City United States
        58
              1968-08-03 New York City United States
        86
              1968-10-23 New York City United States
        117
              1969-06-08 New York City United States
        237
              1970-04-24 New York City United States
        269
              1970-06-23 New York City United States
              1970-07-04 New York City United States
        275
        277
              1970-07-07 New York City United States
```

1970-07-07 New York City United States

1970-07-07 New York City United States

278

279

```
1970-08-01 New York City United States
289
      1970-08-02 New York City
291
                                United States
333
      1970-10-06 New York City
                                United States
      1970-11-25 New York City
360
                                United States
      1970-12-14 New York City
373
                                United States
                 New York City
382
      1971-01-15
                                United States
384
      1971-01-17
                 New York City
                                United States
410
      1971-03-01 New York City
                                United States
      1971-03-01 New York City
411
                                United States
425
      1971-03-31 New York City
                                United States
3082
     1982-07-05
                 New York City
                                United States
     1982-07-05
                 New York City
                                United States
3083
                 New York City
3237
      1982-12-21
                                United States
3242
     1982-12-24
                 New York City
                                United States
     1983-09-23
                 New York City
3452
                                United States
3564
     1984-02-24
                 New York City
                                United States
     1984-04-05 New York City
                                United States
3612
     1984-09-26 New York City
                                United States
3760
3898
     1985-02-18 New York City
                                United States
                 New York City
4205
     1985-09-27
                                United States
     1986-09-02 New York City
4558
                                United States
4608
     1986-10-20 New York City
                                United States
                 New York City
4837
     1987-06-30
                                United States
5441
     1989-02-28 New York City
                                United States
                 New York City
6002
     1990-11-05
                                United States
     1992-02-26 New York City
                                United States
6488
6783
     1993-02-26
                 New York City
                                United States
                 New York City
7078
     1994-03-01
                                United States
7841
     1997-01-13
                 New York City
                                United States
     1997-01-13
                 New York City
7842
                                United States
7843
     1997-01-13
                 New York City
                                United States
7844
      1997-01-13
                 New York City
                                United States
7877
     1997-02-23
                 New York City
                                United States
                 New York City
12718 2001-09-11
                                United States
12869 2001-10-12
                 New York City
                                United States
                 New York City
12890 2001-10-15
                                United States
12915 2001-10-18
                 New York City
                                United States
12923 2001-10-19 New York City
                                United States
                 New York City
12984 2001-10-29
                                United States
22113 2005-05-05 New York City
                                United States
                                            Perpetrator
                                                                   Weapon
23
                                     Anti-Castro Cubans
                                                               Explosives
24
                                     Anti-Castro Cubans
                                                               Explosives
33
                                     Anti-Castro Cubans
                                                               Explosives
37
                                     Anti-Castro Cubans
                                                               Explosives
38
                                     Anti-Castro Cubans
                                                               Explosives
```

39		
00	Anti-Castro Cubans	Explosives
40	Anti-Castro Cubans	Explosives
41	Anti-Castro Cubans	Explosives
42	Anti-Castro Cubans	Explosives
44	Anti-Castro Cubans	Explosives
45	Unknown	Explosives
4 3 58	Anti-Castro Cubans	=
		Explosives
86	Anti-Castro Cubans	Unknown
117	Anti-Castro Cubans	Explosives
237	World United Formosans for Independence	Firearms
269	Jewish Defense League (JDL)	Unknown
275	Unknown	Explosives
277	Unknown	Explosives
278	Unknown	Explosives
279	Unknown	Explosives
289	Weather Underground, Weathermen	Explosives
291	Other	Explosives
333	Unknown	Explosives
360		-
	Jewish Defense League (JDL)	Explosives
373	Armed Revolutionary Independence Movement (MIRA)	Explosives
382	Jewish Defense League (JDL)	Other
384	Unknown	Fire or Firebomb
410	Puerto Rican Resistance Movement	Explosives
411	Unknown	Fire or Firebomb
425	Anti-Castro Cubans	Explosives
		rybiogives
	•••	
 3082		• • • •
3082	 Other	Explosives
3082 3083	 Other Other	Explosives Explosives
3082 3083 3237	 Other Other Unknown	Explosives Explosives Explosives
3082 3083 3237 3242	 Other Other Unknown Other	Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452	 Other Other Unknown Other Unknown	Explosives Explosives Explosives Explosives Firearms
3082 3083 3237 3242 3452 3564	 Other Other Unknown Other Unknown Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives
3082 3083 3237 3242 3452 3564 3612	Other Other Unknown Other Unknown Other Unknown Jewish Defense League (JDL) Other	Explosives Explosives Explosives Explosives Firearms Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558	Other Other Unknown Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Explosives Explosives Chemical Agent
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Explosives Chemical Agent
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488 6783	Other Other Unknown Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other Other Other Jewish Defense League (JDL)	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488 6783 7078	Other Other Unknown Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other Other Jewish Defense League (JDL) Liberation Army Fifth Battalion Other	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives Explosives Fire types Explosives Fire types Explosives Fire types Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488 6783 7078 7841	Other Other Unknown Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other Jewish Defense League (JDL) Liberation Army Fifth Battalion Other Unknown	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives Explosives Fire Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488 6783 7078 7841 7842	Other Other Unknown Other Unknown Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other Unknown Unknown	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives Explosives Explosives Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488 6783 7078 7841 7842 7843	Other Other Unknown Other Unknown Jewish Defense League (JDL) Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other Unknown Unknown Unknown	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives Explosives Explosives Explosives Explosives Explosives Explosives Explosives Explosives
3082 3083 3237 3242 3452 3564 3612 3760 3898 4205 4558 4608 4837 5441 6002 6488 6783 7078 7841 7842	Other Other Unknown Other Unknown Other United Freedom Front (UFF) Jewish Defense League (JDL) Other Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Jewish Defense League (JDL) Other Other Other Unknown Unknown	Explosives Explosives Explosives Explosives Firearms Explosives Explosives Explosives Explosives Explosives Chemical Agent Fire or Firebomb Explosives Fire or Firebomb Unknown Explosives Explosives Explosives Explosives Explosives Explosives Explosives

7877 12718 12869 12890 12915 12923 12984 22113			Other Firears Al Qaeda Oth Unknown Biological Ages Unknown Explosiv	er nt nt nt nt
	Injuries	Fatalities	\	
23	0	0	·	
24	0	0		
33	0	0		
37	0	0		
38	0	0		
39	0	0		
40	0	0		
41	0	0		
42	0	0		
44	0	0		
45	0	0		
58	0	0		
86	0	0		
117	0	0		
237	1	0		
269 275	0	0		
273 277	0	0		
278	3	0		
279	0	0		
289	0	0		
291	0	0		
333	0	0		
360	0	0		
373	0	0		
382	0	0		
384	0	0		
410	0	0		
411	0	0		
425	0	0		
3082	1	0		
3083	0	0		
3237	0	0		
3242	0	0		
3452	0	1		
3564	0	0		
3612	0	0		

3760		0	()	
3898		0	()	
4205		0	()	
4558	2	1	()	
4608		0	()	
4837		0	()	
5441		0	()	
6002		0	1	L	
6488		0	()	
6783	104	2	6	3	
7078		3	1	L	
7841		0	()	
7842		0	()	
7843		0	()	
7844		0	()	
7877		4	2	2	
12718	226	1	2749	9	
12869		6	()	
12890		1	()	
12915		1	()	
12923		2	()	
12984		0	1	L	
22113		0	()	
23	UNITED	STATES.	The	Mexican	miggi
24		STATES.	The		
47	ONTIED	DIMIED.	1116	phaniph	Macio

			Description	Closing Value	\
23	UNITED	STATES.	The Mexican mission to the Uni	95.32	
24	UNITED	STATES.	The Spanish National Tourist O	95.32	
33	UNITED	STATES -	El Poder Cubano bombed the Spa	NaN	
37	UNITED	STATES.	The Spanish National Tourist O	100.66	
38	UNITED	STATES.	The Canadian consulate and tou	NaN	
39	UNITED	STATES.	The Australian National Touris	NaN	
40	UNITED	STATES.	The Japanese National Tourist	NaN	
41	UNITED	STATES.	The Yugoslav mission to the Un	102.23	
42	UNITED	STATES.	The Cuban mission to the Unite	102.23	
44	UNITED	STATES.	A bomb placed by El Poder Cuba	102.26	
45	UNITED	STATES.	A hand grenade was thrown at t	102.26	
58	UNITED	STATES.	The Bank of Tokyo Trust Compan	NaN	
86	UNITED	STATES.	Police captured El Poder Cuban	NaN	
117	UNITED	STATES.	A bomb exploded at the Loew's	NaN	
237	UNITED	STATES.	Nationalist Chinese Premier Ch	82.77	
269	UNITED	STATES.	Members of the Jewish Defense	74.76	
275	UNITED	STATES.	The New York City office of BO	NaN	
277	UNITED	STATES.	A pipe bomb was found at the P	71.23	
278	UNITED	STATES.	A pipe bomb exploded at the Ha	71.23	
279	UNITED	STATES.	An explosive device was found	71.23	
289	UNITED	STATES.	The Revolutionary Affinity Gro	NaN	
291	UNITED	STATES.	A Pan American World Airways 7	NaN	
333	UNITED	STATES.	A pipe bomb exploded in the Ne	86.85	

```
A ten-inch pipe bomb exploded ...
373
       UNITED STATES.
                        The New York City corporate he...
                                                                     89.80
382
       UNITED STATES.
                       Members of the JDL smashed win...
                                                                     93.03
384
       UNITED STATES.
                        A Molotov cocktail was thrown ...
                                                                       NaN
       UNITED STATES.
                        The New School for Social Rese...
410
                                                                     97.00
       UNITED STATES.
                        Two unidentified people threw ...
411
                                                                     97.00
                        The Secret Cuban Government, a...
425
       UNITED STATES.
                                                                    100.31
                                                                       . . .
       UNITED STATES.
                       Explosions within a few minute...
3082
                                                                       NaN
3083
       UNITED STATES.
                        A ticking gasoline bomb was re...
                                                                       NaN
3237
       UNITED STATES.
                        A pipe bomb was discovered und...
                                                                    138.61
3242
       UNITED STATES.
                        An eight-inch pipe bomb was fo...
                                                                       NaN
3452
       UNITED STATES.
                        A Haitian community leader and...
                                                                    169.51
3564
       UNITED STATES.
                        Bombs were tossed over a fence...
                                                                    157.51
3612
       UNITED STATES.
                        Two bombs caused extensive dam...
                                                                    155.04
3760
       UNITED STATES.
                        A powerful blast caused damage...
                                                                    166.28
3898
       UNITED STATES.
                        A police officer on patrol nea...
                                                                       NaN
4205
       UNITED STATES.
                        A bomb was found aboard a Hait...
                                                                       NaN
4558
       UNITED STATES.
                        A tear-gas grenade was fired i...
                                                                    248.52
4608
       UNITED STATES.
                        A fire bomb exploded outside a...
                                                                    235.97
                        The JDL's east coast faction, ...
4837
       UNITED STATES.
                                                                    304.00
       UNITED STATES.
                       Two Berkeley, California books...
5441
                                                                    288.86
6002
       UNITED STATES.
                       The founder of the Jewish Defe...
                                                                    314.59
                       The Syrian United Nations miss...
6488
       UNITED STATES.
                                                                    415.35
6783
       UNITED STATES.
                       The World Trade Center in Manh...
                                                                    443.38
7078
       UNITED STATES.
                       A Lebanese immigrant, Rashid B...
                                                                    464.44
7841
       UNITED STATES.
                       Four letter bombs, addressed t...
                                                                   759.51
7842
       UNITED STATES.
                       Four letter bombs, addressed t...
                                                                   759.51
7843
       UNITED STATES.
                       Four letter bombs, addressed t...
                                                                   759.51
7844
       UNITED STATES.
                       Four letter bombs, addressed t...
                                                                   759.51
7877
       UNITED STATES.
                       A Palestinian opened fire on t...
                                                                       NaN
12718
       Hijacked American Airlines Flight 11 from Bost...
                                                                  1092.54
12869
       Erin O'Connor, the assistant to Tom Brokaw at ...
                                                                  1091.65
12890
       A seven-month-old boy, the son of an ABC news ...
                                                                  1089.98
       Claire Fletcher, an employee of CBS was diagno...
12915
                                                                  1068.61
12923
       Johanna Huden, an employee of the New York Pos...
                                                                  1073.48
12984
       Kathy Nguyen was diagnosed with inhalation ant...
                                                                  1078.30
22113
       Two unsophisticated grenades exploded outside ...
                                                                  1172.63
       index mean5DayChange max5DayChange
                                              min5DayChange
                                                              mean30DayChange
23
          23
                       -0.272
                                        0.53
                                                       -1.30
                                                                     -0.138000
24
          24
                       -0.272
                                        0.53
                                                       -1.30
                                                                     -0.138000
33
          33
                       -0.454
                                        0.49
                                                       -1.31
                                                                     -0.094667
37
          37
                       0.386
                                        0.85
                                                        0.10
                                                                      0.099333
38
          38
                       -0.520
                                        0.05
                                                       -1.17
                                                                      0.026667
39
          39
                       -0.520
                                        0.05
                                                       -1.17
                                                                      0.026667
40
          40
                       -0.520
                                        0.05
                                                       -1.17
                                                                      0.026667
41
          41
                       0.048
                                        0.56
                                                       -0.29
                                                                      0.106667
```

85.09

360

UNITED STATES.

42	42	0.048	0.56	-0.29	0.106667
44	44	0.602	1.13	0.08	0.077333
45	45	0.602	1.13	0.08	0.077333
58	58	0.054	0.65	-0.40	-0.165333
86	86	0.338	0.73	-0.36	-0.077667
117	117	0.900	1.37	0.64	0.260333
237	237	0.304	1.31	-1.54	0.189333
269	269	0.750	1.88	-0.05	-0.018333
275	275	-0.224	1.14	-1.77	-0.060667
277	277	-0.554	0.55	-1.77	-0.118333
278	278	-0.554	0.55	-1.77	-0.118333
279	279	-0.554	0.55	-1.77	-0.118333
289	289	0.198	1.03	-0.17	-0.148333
291	291	0.198	1.03	-0.17	-0.148333
333	333	0.460	0.94	-0.38	0.107667
360	360	-0.740	-0.27	-1.27	-0.247000
373	373	0.008	0.46	-0.32	
					-0.177667
382	382	-0.278	-0.02	-0.41	-0.131667
384	384	-0.278	-0.02	-0.41	-0.131667
410	410	-0.442	0.03	-1.04	-0.204333
411	411	-0.442	0.03	-1.04	-0.204333
425	425	-0.250	-0.05	-0.72	-0.088000
3082	3082	-0.024	1.06	-1.30	0.162000
3083	3083	-0.024	1.06	-1.30	0.162000
3237	3237	-0.904	1.40	-2.45	-0.223667
3242	3242	-0.300	1.40	-2.45	-0.181000
3452	3452	0.506	1.64	-0.56	0.210333
3564	3564	-0.780	2.48	-3.22	-0.025000
3612	3612	0.508	2.50	-0.44	0.032333
3760	3760	0.406	1.48	-0.68	-0.159667
3898	3898	0.610	0.99	0.15	0.058333
4205	4205	-0.740	1.01	-2.99	-0.398667
4558	4558	0.958	4.41	-3.75	0.567333
4608	4608	0.116	2.87	-3.02	-0.340333
4837	4837	0.100	3.90	-2.69	-0.847667
5441	5441	-1.398	1.75	-3.63	-0.355667
6002	6002	-0.378	5.61	-6.13	-0.472333
6488	6488	-0.480	1.49	-4.90	0.413000
6783	6783	-1.000	1.92	-5.89	0.016667
7078	7078	0.046	2.70	-2.17	0.652333
7841	7841	-3.334	1.66	-9.35	-1.692667
7842	7842	-3.334	1.66	-9.35	-1.692667
7843	7843	-3.334	1.66	-9.35	-1.692667
7844	7844	-3.334	1.66	-9.35	-1.692667
7877	7877	1.546	10.61	-8.51	1.496667
12718	12718	10.754	53.77	0.00	0.088000
12869	12869	5.764	20.45	-7.56	-1.763667
•					

12890	12890	3.634	20.45 -7.5	6 -2.192333	
12915	12915	-1.622	8.48 -16.4		
12923	12923	-6.296	5.12 -16.4		
12984	12984	3.482	26.31 -24.3		
22113	22113	0.908	12.62 -7.4		
22110		0.000	12.02	11111000	
	max30DayChange	min30DayChange	mean5DayChangeAbs	max30DayChangeAbs	\
23	0.70	-1.31	0.272	0.70	`
24	0.70	-1.31	0.272	0.70	
33	1.00	-1.52	0.454	1.00	
37	1.27	-1.17	0.386	1.27	
38	1.27	-1.17	0.520	1.27	
39	1.27	-1.17	0.520	1.27	
40	1.27	-1.17	0.520	1.27	
41	1.27	-1.00	0.048	1.27	
42	1.27	-1.00	0.048	1.27	
44	1.27	-1.00	0.602	1.27	
45	1.27	-1.00	0.602	1.27	
1 3	0.65	-1.00	0.054	0.65	
86	0.03	-0.78	0.338	0.73	
117	1.50	-1.09	0.900	1.50	
237	2.07	-3.48	0.304	2.07	
269			0.750	1.88	
	1.88	-1.77			
275	1.14	-1.77	0.224	1.14	
277	1.08	-1.77	0.554	1.08	
278	1.08	-1.77	0.554	1.08	
279	1.08	-1.77	0.554	1.08	
289	1.08	-1.75	0.198	1.08	
291	1.08	-1.75	0.198	1.08	
333	1.13	-0.71	0.460	1.13	
360	1.00	-1.27	0.740	1.00	
373	1.00	-0.99	0.008	1.00	
382	1.02	-0.69	0.278	1.02	
384	1.02	-0.69	0.278	1.02	
410	0.66	-1.14	0.442	0.66	
411	0.66	-1.14	0.442	0.66	
425	0.68	-0.78	0.250	0.68	
3082	1.69	-1.89	0.024	1.69	
3083	1.69	-1.89	0.024	1.69	
3237	3.88	-3.31	0.904	3.88	
3242	3.88	-3.31	0.300	3.88	
3452	2.62	-2.54	0.506	2.62	
3564	2.50	-3.22	0.780	2.50	
3612	2.50	-2.73	0.508	2.50	
3760	1.48	-3.96	0.406	1.48	
3898	1.58	-2.66	0.610	1.58	
4205	1.35	-2.99	0.740	1.35	

4558	11.88	-3.75	0.958	11.88
4608	6.43	-4.39	0.116	6.43
4837	3.90	-5.33	0.100	3.90
5441	6.75	-3.63	1.398	6.75
6002	5.61	-6.13	0.378	5.61
6488	7.53	-4.90	0.480	7.53
6783	8.91	-8.60	1.000	8.91
7078	7.52	-9.37	0.046	7.52
7841	10.98	-13.18	3.334	10.98
7842	10.98	-13.18	3.334	10.98
7843	10.98	-13.18	3.334	10.98
7844	10.98	-13.18	3.334	10.98
7877	16.76	-11.04	1.546	16.76
12718	53.77	-37.65	10.754	53.77
12869	26.31	-24.32	5.764	26.31
12890	26.31	-24.32	3.634	26.31
12915	26.31	-24.32	1.622	26.31
12923	26.31	-24.32	6.296	26.31
12984	26.31	-25.55	3.482	26.31
22113	12.62	-11.76	0.908	12.62

shortDescription

		SHOT (Description
23	UNITED STATES.	The Mexican mission to the Uni
24	UNITED STATES.	The Spanish National Tourist O
33	UNITED STATES -	El Poder Cubano bombed the Spa
37	UNITED STATES.	The Spanish National Tourist O
38	UNITED STATES.	The Canadian consulate and tou
39	UNITED STATES.	The Australian National Touris
40	UNITED STATES.	The Japanese National Tourist
41	UNITED STATES.	The Yugoslav mission to the Un
42	UNITED STATES.	The Cuban mission to the Unite
44	UNITED STATES.	A bomb placed by El Poder Cuba
45	UNITED STATES.	A hand grenade was thrown at t
58	UNITED STATES.	The Bank of Tokyo Trust Compan
86	UNITED STATES.	Police captured El Poder Cuban
117	UNITED STATES.	A bomb exploded at the Loew's
237	UNITED STATES.	Nationalist Chinese Premier Ch
269	UNITED STATES.	Members of the Jewish Defense
275	UNITED STATES.	The New York City office of BO
277	UNITED STATES.	A pipe bomb was found at the P
278	UNITED STATES.	A pipe bomb exploded at the Ha
279	UNITED STATES.	An explosive device was found
289	UNITED STATES.	The Revolutionary Affinity Gro
291	UNITED STATES.	A Pan American World Airways 7
333	UNITED STATES.	A pipe bomb exploded in the Ne
360	UNITED STATES.	A ten-inch pipe bomb exploded
373	UNITED STATES.	The New York City corporate he
382	UNITED STATES.	Members of the JDL smashed win

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384
                UNITED STATES.
                                A Molotov cocktail was thrown ...
                UNITED STATES.
         410
                                The New School for Social Rese...
         411
                UNITED STATES.
                                Two unidentified people threw ...
         425
                UNITED STATES.
                                The Secret Cuban Government, a...
                UNITED STATES.
                                Explosions within a few minute...
         3082
         3083
                UNITED STATES.
                                A ticking gasoline bomb was re...
         3237
                UNITED STATES.
                                A pipe bomb was discovered und...
         3242
                UNITED STATES. An eight-inch pipe bomb was fo...
        3452
                UNITED STATES. A Haitian community leader and...
                UNITED STATES.
        3564
                                Bombs were tossed over a fence...
         3612
                UNITED STATES.
                                Two bombs caused extensive dam...
         3760
                UNITED STATES.
                                A powerful blast caused damage...
         3898
                UNITED STATES.
                                A police officer on patrol nea...
         4205
                UNITED STATES.
                                A bomb was found aboard a Hait...
         4558
                UNITED STATES. A tear-gas grenade was fired i...
         4608
                UNITED STATES. A fire bomb exploded outside a...
         4837
                UNITED STATES.
                                The JDL's east coast faction, ...
         5441
                UNITED STATES. Two Berkeley, California books...
         6002
                UNITED STATES. The founder of the Jewish Defe...
                UNITED STATES. The Syrian United Nations miss...
         6488
         6783
                UNITED STATES. The World Trade Center in Manh...
        7078
                UNITED STATES. A Lebanese immigrant, Rashid B...
         7841
                UNITED STATES. Four letter bombs, addressed t...
        7842
                UNITED STATES. Four letter bombs, addressed t...
         7843
                UNITED STATES. Four letter bombs, addressed t...
                UNITED STATES. Four letter bombs, addressed t...
        7844
        7877
                UNITED STATES. A Palestinian opened fire on t...
         12718
               Hijacked American Airlines Flight 11 from Bost...
         12869
                Erin O'Connor, the assistant to Tom Brokaw at ...
         12890
                A seven-month-old boy, the son of an ABC news ...
         12915
                Claire Fletcher, an employee of CBS was diagno...
         12923
                Johanna Huden, an employee of the New York Pos...
         12984
               Kathy Nguyen was diagnosed with inhalation ant...
                Two unsophisticated grenades exploded outside ...
         [167 rows x 19 columns]
In [45]: fig = px.scatter(us, x="Date", y="mean30DayChange",color="Weapon",size="max30DayChange
        fig.show()
In []:
```