Notes

These codes are originated from below kernels:

- https://www.kaggle.com/ramontanoeiro/seoul-air-pollution
- https://www.kaggle.com/seriousran/eda-ing
- https://www.kaggle.com/bappekim/visualizing-the-location-of-station-using-folium

Based on these, original code will be added more and more.

from google.colab import drive
drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

Preparing data

Import packages

import pandas as pd import numpy as np from matplotlib import pyplot as plt %matplotlib inline import seaborn as sns

Load data

We can see the explanation of dataset in data description section.

df_summary = pd.read_csv('<u>/content/drive/MyDrive</u>/한국분석/air_pollution_in_seoul/AirPollutionSeoul/Measurement_summary.csv') # A condensed dataset bas df_info = pd.read_csv('<u>/content/drive/MyDrive</u>/한국분석/air_pollution_in_seoul/AirPollutionSeoul/Original Data/Measurement_info.csv') # Air pollution m df_item = pd.read_csv('<u>/content/drive/MyDrive</u>/한국분석/air_pollution_in_seoul/AirPollutionSeoul/Original Data/Measurement_item_info.csv') # Informati df_station = pd.read_csv('<u>/content/drive/MyDrive</u>/한국분석/air_pollution_in_seoul/AirPollutionSeoul/Original Data/Measurement_station_info.csv') # Informati

df_summary.head()

_		Measurement date	Station code	Address	Latitude	Longitude	S02	N02	03	CO	PM10	PM2.5	
	0	2017-01-01 00:00	101	19, Jong-ro 35ga-gil, Jongno-gu, Seoul, Republ	37.572016	127.005008	0.004	0.059	0.002	1.2	73.0	57.0	Ш
	1	2017-01-01 01:00	101	19, Jong-ro 35ga-gil, Jongno-gu, Seoul, Republ	37.572016	127.005008	0.004	0.058	0.002	1.2	71.0	59.0	
	2	2017-01-01 02:00	101	10					0.002		70.0	59.0	>

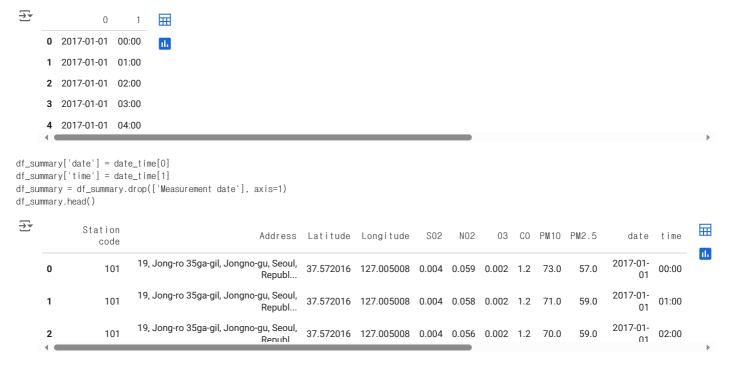
Exploring data

Inspecting columns

This data was measured every hour between 2017 and 2019 thus Measurement date column has date + time data.

It has to be splitted into date and time into separate columns to see daily data visualization.

date_time = df_summary['Measurement date'].str.split(' ', n=1, expand=True)
date time.head()



The dataset is from 25 districts in Seoul.

As we saw above, Station code, Address, Latitude and Longitude columns explain for locations. We can check all of these columns have distinct 25 values.

Measurement variables validation check

df_summary.describe()

→		Station code	Latitude	Longitude	S02	N02	03	CO	PM10	
	count	647511.000000	647511.000000	647511.000000	647511.000000	647511.000000	647511.000000	647511.000000	647511.000000	647511.0
	mean	113.000221	37.553484	126.989340	-0.001795	0.022519	0.017979	0.509197	43.708051	25.4
	std	7.211315	0.053273	0.078790	0.078832	0.115153	0.099308	0.405319	71.137342	43.9
	min	101.000000	37.452357	126.835151	-1.000000	-1.000000	-1.000000	-1.000000	-1.000000	-1.0
	25%	107.000000	37.517528	126.927102	0.003000	0.016000	0.008000	0.300000	22.000000	11.0
	50%	113.000000	37.544962	127.004850	0.004000	0.025000	0.021000	0.500000	35.000000	19.0
	75%	119.000000	37.584848	127.047470	0.005000	0.038000	0.034000	0.600000	53.000000	31.0
	max	125.000000	37.658774	127.136792	3.736000	38.445000	33.600000	71.700000	3586.000000	6256.0 •

We can see that there are some -1 values on thes pollutant columns, which should not be possible. This might be wrong reading fo the instrument used to measure pollutants. Or -1 value could means NA value.

We will search and drop them.

```
print('We \ have \ \{\}\ negative\ values\ for\ SO2'.format(df\_summary['SO2'].loc[df\_summary['SO2'] < 0].count()))
print('We have {} negative values for NO2'.format(df_summary['NO2'].loc[df_summary['NO2'] < 0].count()))</pre>
print('We have {} negative values for 03'.format(df_summary['03'].loc[df_summary['03'] < 0].count()))
print('We have {} negative values for CO'.format(df_summary['CO'].loc[df_summary['CO'] < 0].count()))</pre>
print('We have {} negative values for PM10'.format(df_summary['PM10'].loc[df_summary['PM10'] < 0].count()))
print('We \ have \ \{\} \ negative \ values \ for \ PM2.5'.format(df\_summary['PM2.5'].loc[df\_summary['PM2.5'] < 0].count())))
    We have 3976 negative values for S02
     We have 3834 negative values for NO2
     We have 4059 negative values for 03
     We have 4036 negative values for CO
     We have 3962 negative values for PM10
     We have 3973 negative values for PM2.5 \,
import plotly
import plotly.graph_objs as go
import plotly.offline as py
# import plotly.io as pio
# pio.renderers.default = 'colab'
plotly.offline.init_notebook_mode(connected=True)
to\_drop = df\_summary[\ 'SO2'\ ] < 0) \ | \ (df\_summary[\ 'NO2'\ ] < 0) \ | \ (df\_summary[\ 'CO'\ ] < 0) \ | \ (df\_summary[\ 'O3'\ ] < 0)]
print("Total number of to_drop records is {}".format(to_drop.shape[0]))
to_drop.head()
→ Total number of to_drop records is 4529
                 Station
                                                                                                                                                        \blacksquare
                                                          Address Latitude Longitude S02 N02
                                                                                                          03
                                                                                                               CO PM10 PM2.5
                                                                                                                                        date time
                     code
                                                                                                                                                        16
                               19, Jong-ro 35ga-gil, Jongno-gu, Seoul,
                                                                                                                                     2017-02-
      854
                      101
                                                                     37.572016 127.005008 -1.0 -1.0 -1.0 -1.0
                                                                                                                      -1.0
                                                                                                                              -1.0
                                                                                                                                               14:00
                                                           Republ...
                                                                                                                                           05
                               19, Jong-ro 35ga-gil, Jongno-gu, Seoul,
                                                                                                                                     2017-02-
      855
                      101
                                                                     37.572016 127.005008 -1.0 -1.0 -1.0 -1.0
                                                                                                                                               15:00
                                                                                                                      -1.0
                                                                                                                              -1.0
                                                                                                                                           05
                                                           Republ...
                               19, Jong-ro 35ga-gil, Jongno-gu, Seoul,
                                                                                                                                     2017-02-
       856
                      101
                                                                     37.572016 127.005008 -1.0 -1.0 -1.0 -1.0
                                                                                                                      -1.0
                                                                                                                                               16:00
                                                           Republ.
                                                                                                                                           05
```

We could suspect that something was wrong at the same day thus measurement had worng value.

```
# drop records which contains columns having negative value
df_summary.drop(to_drop.index, axis=0, inplace=True)
# Gas pollutants
# Sampling a single station data
sample_101 = df_summary.loc[df_summary['Station code'] == 101]
data = [go.Scatter(x=sample_101['date'],
                   y=sample_101['S02']),
       go.Scatter(x=sample_101['date'],
                   y=sample_101['N02']),
       go.Scatter(x=sample_101['date'],
                  y=sample_101['03']),
       go.Scatter(x=sample_101['date'],
                  y=sample_101['C0'])]
layout = go.Layout(title='Gases Levels after dropping negative value (Sample - Station code: 101)',
                  yaxis={'title': 'Level (ppm)'},
                  xaxis={'title': 'Date'})
fig = go.Figure(data=data, layout=layout)
py.iplot(fig)
```



₹		Station code	Address	Latitude	Longitude	S02	N02	03	CO	PM10	PM2.5	date	time	
	2247	101	19, Jong-ro 35ga-gil, Jongno-gu, Seoul, Republ	37.572016	127.005008	0.072	0.012	0.034	7.3	2.0	-1.0	2017-04- 04	15:00	ш
	3255	101	19, Jong-ro 35ga-gil, Jongno-gu, Seoul, Republ	37.572016	127.005008	0.000	0.000	0.000	0.0	0.0	0.0	2017-05- 16	15:00	
	3467	101	19, Jong-ro 35ga-gil, Jongno-gu, Seoul Republ	37.572016	127.005008	0.000	0.000	0.000	0.0	0.0	0.0	2017-05- 25	11:00	>

df_summary.drop(to_drop_PM.index, axis=0, inplace=True)

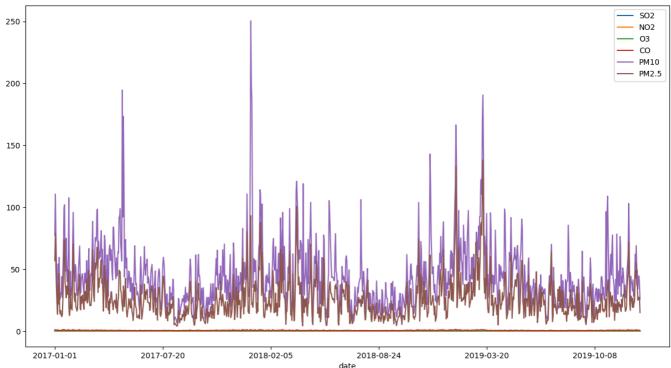
check negative and zero value drop result
pm_pollutants = df_summary[['PM2.5', 'PM10']]
pm_pollutants.apply(lambda x: x <= 0).sum().sum()</pre>

→ 0

Plotting total data daily basis

```
df_seoul_daily = df_summary.groupby(['date'], as_index=False).agg({
    'SO2': 'mean', 'NO2': 'mean', 'O3': 'mean', 'C0': 'mean', 'PM10': 'mean', 'PM2.5': 'mean',
})
df_seoul_daily.head()
\overline{z}
                                                                PM10
                                                                         PM2.5
                                                                                  ⊞
              date
                        S02
                                  N02
                                             03
                                                      CO
      0 2017-01-01 0.005302 0.046509 0.004152 0.985142
                                                           77.332220 56.869783
      1 2017-01-02 0.005970 0.039572 0.016533 0.891568 110.532884 78.762226
      2 2017-01-03 0.005641 0.042332 0.013264 0.769865
                                                           79.188552 51.959596
      3 2017-01-04 0.005817 0.050734 0.008628 0.884590
                                                           55.244556 34.708543
      4 2017-01-05 0.004798 0.035620 0.011401 0.659532 36.362876 22.244147
 다음 단계:
             df_seoul_daily변수로 코드 생성
                                             ● 추천 차트 보기
                                                                   New interactive sheet
```

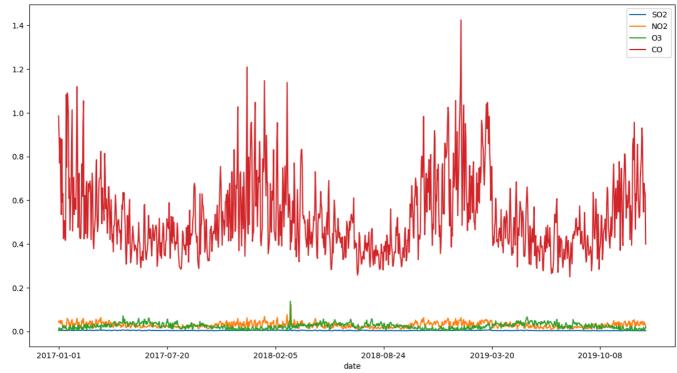
df_seoul_daily.plot(x='date', figsize=(15,8))



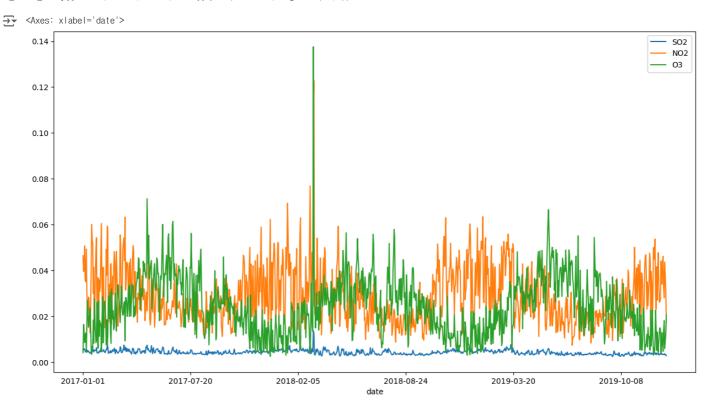
Daily mean value of all six pollutants are plotted in a single diagram.

As we can saw in $df_seoul_daily.head()$, scales of each pollutants are varying thus we could not see any other daily mean values other than PM10 and PM2.5, which have large scales.

df_seoul_daily[['date', 'S02', 'N02', '03', 'C0']].plot(x='date', figsize=(15,8))



df_seoul_daily[['date', 'S02', 'N02', '03']].plot(x='date', figsize=(15,8))

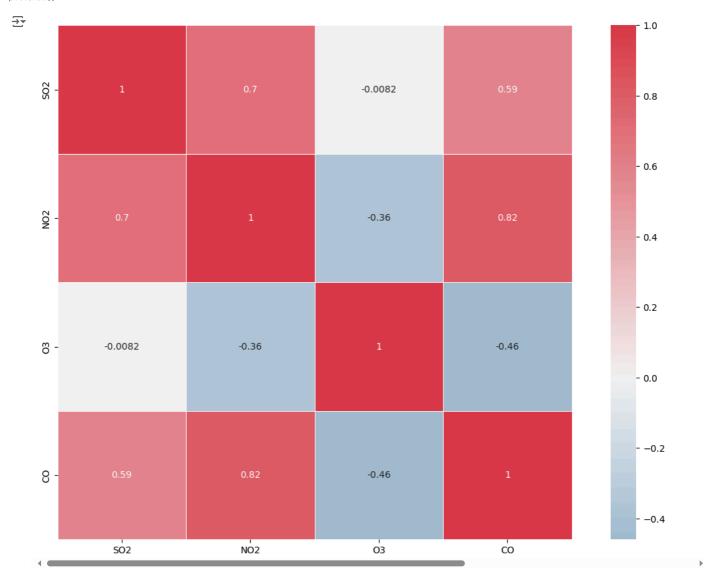


NOTES for novice like me

We want see how pollutant variavles are related each other (correlation analysis). But pollutant variables have different scales. It might be worry for standardization if we don't know what Pearson correlation coefficient means and is for.

ρxy=Cov(x,y) / (σxσy) (Pearson correlation coefficient)

Correlation is normalized by standard deviation. Therefore, no need to normalize them. By definition the correlation coefficient is independent of change of origin and scale. As such standardization will not alter the value of correlation.



There are highly related variables as follows:

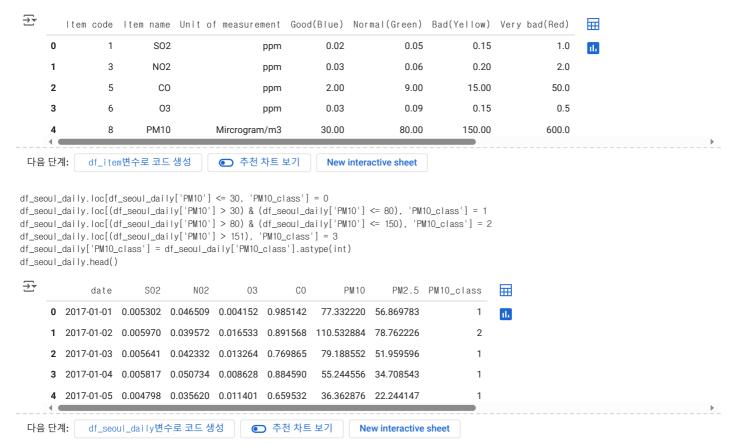
- S02 and N02 (0.86)
- S02 and 03 (0.84)
- PM2.5 and CO (0.75)
- PM2.5 and PM10 (0.81)

→ PM10 data (Particle Matter 10)

South Korea PM10 enviornmental standards (daily mean)

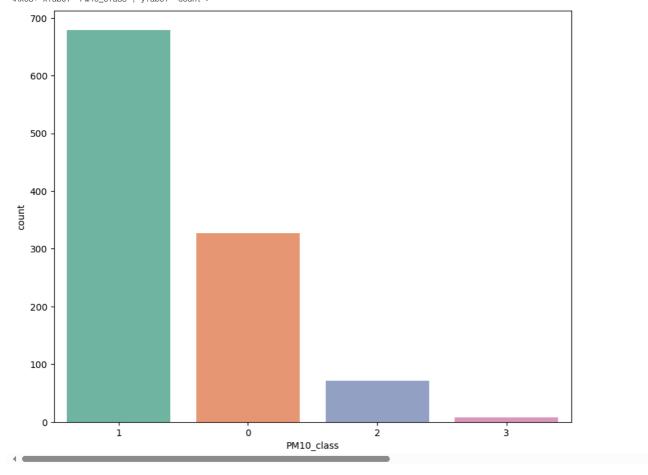
- Good 0~30
- Not Bad ~80
- Bad ~150
- Very Bad 151~

df_item.head()



Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` :

<Axes: xlabel='PM10_class', ylabel='count'>



```
data = [go.Scatter(x=sample_101['date'],
                   y=sample_101['PM10'])]
layout = go.Layout(title='PM10 Levels (Sample - Station code: 101)',
                   xaxis={'title': 'Date'},
                   yaxis={'title': 'Level (ppm)'})
fig = go.Figure(data=data, layout=layout)
# `Good` horizontal line
fig.add_shape(
    type='line',
    x0='2017-01-01',
    y0=30,
    x1='2019-12-31',
    y1=30,
    line=dict(
        color='Green',
        width=5,
        dash='dashdot'
)
# `Not Bad` horizontal line
fig.add_shape(
    type='line',
    x0=12017-01-01,
    y0=80,
    x1='2019-12-31',
    line=dict(
        color='Yellow',
        width=5,
        dash='dashdot'
)
py.iplot(fig)
\overline{\Rightarrow}
```

Location based exploration

TOP 5 average PM value

```
pm10_top5 = df_summary.groupby(by='Station code').agg({'PM10': 'mean'}).sort_values(by='PM10', ascending=False).head(5).reset_index()
pm10_top5_st_codes = pm10_top5['Station code'].tolist()
print('PM Top 5 station codes: {}'.format(pm10_top5_st_codes))
pm10_top5_district = df_station.set_index('Station code').loc[pm10_top5_st_codes].reset_index()['Station name(district)']
pm10_top5.insert(loc=1, column='Station name(district)', value=pm10_top5_district)
pm10_top5
```



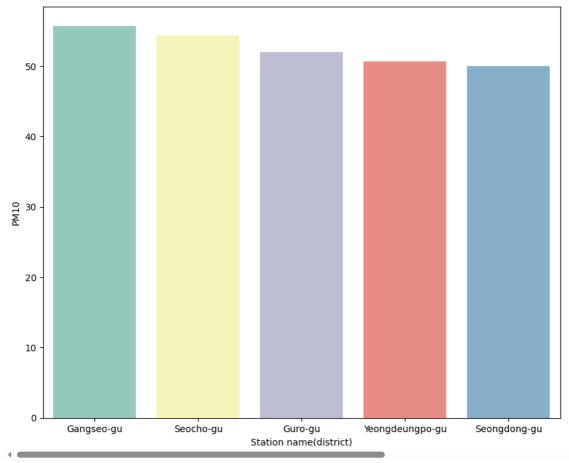
From 2017 to 2019, Top 5 districts for average PM10 are Ganseo-gu, Seocho-gu, Guro-gu, Yeongdeungpo-gu and Seongdong-gu.

```
plt.figure(figsize=(10, 8))
sns.barplot(data=pm10_top5, x='Station name(district)', y='PM10', palette='Set3')
```

<ipython-input-32-b58bb6142789>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` i

<Axes: xlabel='Station name(district)', ylabel='PM10'>



Visualizing the location of station using polium

import requests import folium import json import random

df_station.head()

```
₹
         Station code Station name(district)
                                                                                         Address Latitude Longitude
                                                                                                                             \blacksquare
      0
                    101
                                         Jongno-gu
                                                       19, Jong-ro 35ga-gil, Jongno-gu, Seoul, Republ... 37.572016 127.005008
                                                                                                                             ıl.
                                                       15, Deoksugung-gil, Jung-gu, Seoul, Republic o... 37.564263 126.974676
      1
                    102
                                           Jung-gu
      2
                    103
                                        Yongsan-gu 136, Hannam-daero, Yongsan-gu, Seoul, Republic... 37.540033 127.004850
      3
                    104
                                      Eunpyeong-gu
                                                      215, Jinheung-ro, Eunpyeong-gu, Seoul, Republi... 37.609823 126.934848
      4
                    105
                                     Seodaemun-gu
                                                     32, Segeomjeong-ro 4-gil, Seodaemun-gu, Seoul,... 37.593742 126.949679
 다음 단계:
              df_station변수로 코드 생성
                                             ● 추천 차트 보기
                                                                    New interactive sheet
center = [37.541, 126.986] # center of Seoul
m = folium.Map(location=center, zoom_start=11) # set map
# seoul district geo json
# https://raw.githubusercontent.com/southkorea/seoul-maps/master/kostat/2013/json/seoul_municipalities_geo.json
seoul_geo_url = 'https://raw.githubusercontent.com/southkorea/seoul-maps/master/kostat/2013/json/seoul_municipalities_geo.json'
resp = requests.get(seoul_geo_url)
seoul_geo = json.loads(resp.text)
# Add GeoJson to map
# GeoJson: info for representing polygon(district, borderline)
folium.GeoJson(
    seoul_geo,
    name='seoul_municipalities',
).add_to(m)
# Add marker
for i in df_station.index[:]:
  marker_popup_str = 'Station Name: ' + str(df_station.loc[i, 'Station name(district)'])
  folium.Marker(df_station.loc[i, ['Latitude', 'Longitude']],
                popup=marker_popup_str,
                icon=folium.lcon(color='black')).add_to(m)
```

Series.__getitem__ treating keys as positions is deprecated. In a future version, integer keys will always be treated as labels (consistent wi /usr/local/lib/python3.10/dist-packages/folium/utilities.py:86: FutureWarning:

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Series, getitem treating keys as positions is deprecated. In a future version, integer keys will always be treated as labels (consistent wi /usr/local/lib/python3.10/dist-packages/folium/utilities.py:86: FutureWarning:

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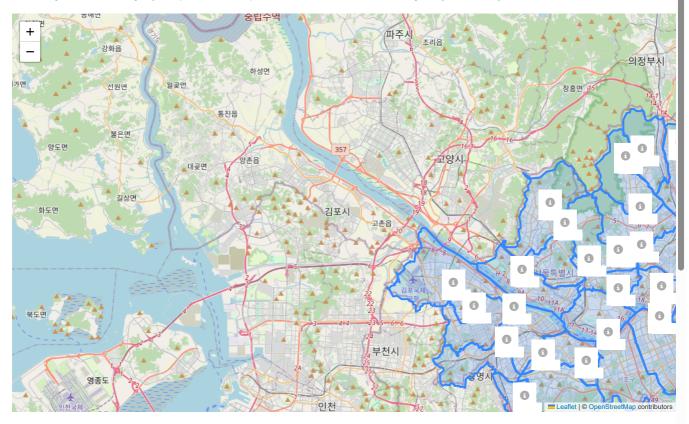
Series.__getitem__ treating keys as positions is deprecated. In a future version, integer keys will always be treated as labels (consistent wi /usr/local/lib/python3.10/dist-packages/folium/utilities.py:86: FutureWarning:

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Series.__getitem__ treating keys as positions is deprecated. In a future version, integer keys will always be treated as labels (consistent wi



df_item.head()

→		Item code	Item name	Unit of measurement	Good(Blue)	Normal(Green)	Bad(Yellow)	Very bad(Red)	
	0	1	S02	ppm	0.02	0.05	0.15	1.0	ılı
	1	3	N02	ppm	0.03	0.06	0.20	2.0	
	2	5	CO	ppm	2.00	9.00	15.00	50.0	
	3	6	03	ppm	0.03	0.09	0.15	0.5	
	4	8	PM10	Mircrogram/m3	30.00	80.00	150.00	600.0	

```
def get_criteria(df_item, poll_item):
 critera = df_item[df_item['ltem name'] == poll_item].iloc[0, 3:]
  return critera
def seoul_pollutant_map(df_day, df_item, poll_item):
   """ Visualize pollutant item status of each district by color marker """
  criteria = get_criteria(df_item, poll_item)
 df_day_c = df_day.copy()
  # set color of marker
  df_day_c['color'] = ''
  df_day_c.loc[df_day_c[poll_item] <= criteria[3], 'color'] = 'red'</pre>
  df_day_c.loc[df_day_c[poll_item] <= criteria[2], 'color'] = 'orange' # yellow</pre>
  df_day_c.loc[df_day_c[poll_item] <= criteria[1], 'color'] = 'green'
df_day_c.loc[df_day_c[poll_item] <= criteria[0], 'color'] = 'blue'</pre>
  center = [37.541, 126.986] # center of Seoul
 m = folium.Map(location=center, zoom_start=11) # set map
  seoul_geo_url = 'https://raw.githubusercontent.com/southkorea/seoul-maps/master/kostat/2013/json/seoul_municipalities_geo.json'
  resp = requests.get(seoul_geo_url)
  seoul_geo = json.loads(resp.text)
  # Add GeoJson to map
  folium.GeoJson(
      seoul_geo,
      name='seoul_municipalities',
  ).add_to(m)
  for i in df_day_c.index:
    marker_popup_str = 'Station : ' + str(df_day_c.loc[i, 'Station code']) + ':' + str(df_day_c.loc[i, poll_item])
    folium.Marker(df_day_c.loc[i, ['Latitude', 'Longitude']],
                  popup=marker_popup_str,
                   icon=folium.lcon(color=df_day_c.loc[i, 'color'])).add_to(m)
 return m
random.seed(5)
ind = random.randint(1, len(df_summary))
day = df_summary.loc[ind, 'date']
print(day)
df_day = df_summary[df_summary['date'] == day]
seoul_pollutant_map(df_day, df_item, 'PM10')
```

<ipython-input-37-763db8616d09>:14: FutureWarning:

Series.__getitem__ treating keys as positions is deprecated. In a future version, integer keys will always be treated as labels (consistent with <ipvthon-input-37-763db8616d09>:15: FutureWarning:

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