**Line Chart**

import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

import datetime

covid\_data = pd.read\_csv('https://learn.sharpsightlabs.com/datasets/covid19/covid\_data\_2020-04-09.csv'

,sep = ";"

)

covid\_data = covid\_data.assign(date = pd.to\_datetime(covid\_data.date, format='%Y-%m-%d'))

covid\_data = covid\_data.fillna(value = {'subregion':''})

plt.style.use('bmh')

sns.lineplot(data = covid\_data

,x = 'date'

,y = 'new\_cases'

)

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,x = 'date'

,y = 'new\_cases'

)

plt.xticks(rotation=45, horizontalalignment='right')

plt.title('Covid-19 daily new cases\nin the United States', fontsize = 18)

covid\_top9\_countries = (covid\_data

.query('date >= datetime.date(2020, 4, 9)')

.sort\_values('new\_cases', ascending = False)

.iloc[0:9]

.country

)

print(covid\_top9\_countries.values)

covid\_data\_country\_sub = (covid\_data

.filter(['country','date','new\_cases'])

.query("country in @covid\_top9\_countries.values")

.groupby(['country','date'])

.agg('sum')

.reset\_index()

)

grid\_layout = sns.FacetGrid(covid\_data\_country\_sub

,col = 'country'

,col\_wrap = 3

,col\_order= covid\_top9\_countries.values

,aspect = 1.2

)

grid\_layout.map(sns.lineplot, 'date', 'new\_cases',color ='#FF2700')

grid\_layout.set\_titles('{col\_name}')

for ax in grid\_layout.axes:ax.set\_xlabel("")

ax.set\_ylabel("")

for ax in grid\_layout.axes:

for label in ax.get\_xticklabels():label.set\_rotation(90)

grid\_layout.fig.text(0.5, -.1,'Date', fontsize=20) #add text

grid\_layout.fig.text(-0.12, .5,'New Cases', fontsize=20) #add text

grid\_layout.fig.suptitle('Growth of Daily New Cases for COVID-19',y = 1.12,fontsize = 2 )

