Part 3

In [89]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import matplotlib

%matplotlib inline
```

In [90]:

```
#importing the data:
google = pd.read_csv('https://raw.githubusercontent.com/kirubanath/Projects-and-Applica
tions-of-DS/main/Final%20Project/data/google.txt', delimiter= '\t')
yahoo  = pd.read_csv('https://raw.githubusercontent.com/kirubanath/Projects-and-Applica
tions-of-DS/main/Final%20Project/data/yahoo.txt', delimiter= '\t')
ny     = pd.read_csv('https://raw.githubusercontent.com/kirubanath/Projects-and-Applica
tions-of-DS/main/Final%20Project/data/ny.txt', delimiter= '\t')
```

In [91]:

```
matplotlib.rcParams.update({'font.size': 10})

fig, ax = plt.subplots(figsize = (15,10))


ax.plot(yahoo['Modified Julian Date'],yahoo['Stock Value'], color = 'purple')
ax.plot(google['Modified Julian Date'],google['Stock Value'], color = 'green')
ax.set_ylabel('Value (Dollars)',fontsize = 15,labelpad = 20)
ax.set_xlabel('Date (MJD)',fontsize = 15,labelpad = 20)
ax.yaxis.label.set_color('purple')
ax.tick_params(axis='y', colors='green')


ax2 = ax.twinx()
ax2.plot(ny['Modified Julian Date'],ny['Max Temperature'], color = 'blue',linestyle='da
shed')
ax2.set_yticks(np.arange(-150,101,50))
ax2.set_ylabel('Temperature (°F)', fontsize = 15,labelpad = 20)
ax2.yaxis.label.set_color('blue')
ax2.tick_params(axis='y', colors='blue')


ax.legend(['Yahoo! Stock value', 'Google stock value'], loc = 6, frameon = False, fonts
ize = 15)
ax2.legend(['NY Mon. High Temp'],loc = 6,bbox_to_anchor = (0.,0.435),frameon = False, f
ontsize = 15)

plt.title('New York Temperature, Google, and Yahoo!', fontsize = 20,fontweight = 'bol
d', pad = 30);
```