**Exercise: Build your own stylesheet**

1. Create an empty stylesheet in your matplotlib style directory. On OSX, that’s in $HOME/.matplotlib/stylelib
2. Run the following code, making the figure below it.

import pandas as pd

import matplotlib.pyplot as plt

import numpy as np

df = pd.read\_csv("data/Lekagul-Sensor-Data.csv")

df["Timestamp"] = pd.to\_datetime(df["Timestamp"])

plt.figure(figsize=(15,8))

for car\_type in df["car-type"].unique():

g = df[df["car-type"] == car\_type].groupby(pd.DatetimeIndex(df[df["car-type"] == car\_type]["Timestamp"]).date)

plt.plot(g.count().index,g.count().Timestamp,label=car\_type)

plt.legend()

plt.savefig(“initalgraphic.png”)



1. Edit your stylesheet to use the colors:  
    [(31, 119, 180), (174, 199, 232), (255, 127, 14), (255, 187, 120),   
    (44, 160, 44), (152, 223, 138), (214, 39, 40), (255, 152, 150),   
    (148, 103, 189), (197, 176, 213), (140, 86, 75), (196, 156, 148),   
    (227, 119, 194), (247, 182, 210), (127, 127, 127), (199, 199, 199),   
    (188, 189, 34), (219, 219, 141), (23, 190, 207), (158, 218, 229)]

Edit the code to use your stylesheet, and re-run the code such that your graphic now looks like:

