Week 6 Discussion - APAC's Share of the Travel Market

```
In [3]: import matplotlib.pyplot as plt
    import pandas as pd
    import numpy as np
    import random as rd
    import matplotlib
    import matplotlib.pyplot as plt
    from matplotlib.pyplot import figure
    from pandas import ExcelWriter
    from pandas import ExcelFile
    %matplotlib inline
In [39]: # Import the Data

apac = pd read eyeel(!C:\\Users\\zadai\\Openrive\\Documents\\Data Science School Documents\\MSDS 670
```

In [39]: # Import the Data
 apac = pd.read_excel('C:\\Users\\zadai\\OneDrive\\Documents\\Data Science School Documents\\MSDS 670
 Visualizations\\Week 6\\APAC_Travel_Market.xlsx')
 apac

Out[39]:

```
        Region
        2000
        2016

        0
        Other
        0.10
        0.09

        1
        Latin America
        0.04
        0.04

        2
        Middle East
        0.03
        0.03

        3
        Europe
        0.35
        0.27

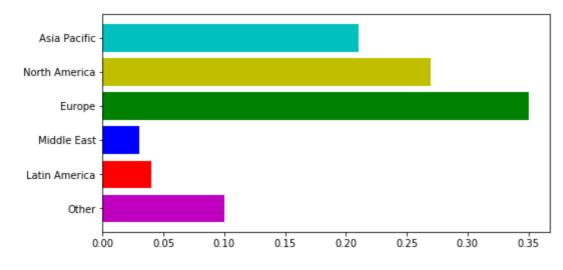
        4
        North America
        0.27
        0.25

        5
        Asia Pacific
        0.21
        0.31
```

In [42]: Region = "Other", "Latin America", "Middle East", "Europe", "North America", "Asia Pacific" two = 0.10, 0.04, 0.03, 0.35, 0.27, 0.21 sixteen = 0.09, 0.04, 0.03, 0.27, 0.25, 0.31

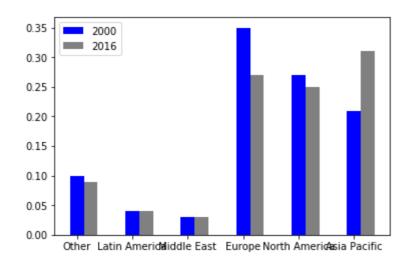
```
In [47]:    plt.figure(figsize = (8, 4))
    a = plt.barh(Region, two, height = .8, color = ("m", "r", "b", "g", "y", "c"))
    plt.title("Region in 2000", fontsize = 20)
    plt.legend(a, Region, fontsize = 10)
    plt.show()
```

TypeError: 'str' object is not callable



```
In [57]: x = np.arange(6)
   plt.bar(x + 0.00, two, color = "b", width = 0.25, label = "2000")
   plt.bar(x + 0.25, sixteen, color = "grey", width = 0.25, label = "2016")
   plt.xticks(x, Region)
   plt.legend(fontsize = 10)
   plt.title("Region Differences from 2000 to 2016", fontsize = 24)
   plt.show()
```

TypeError: 'str' object is not callable

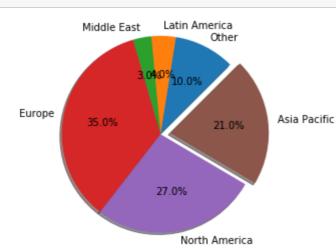


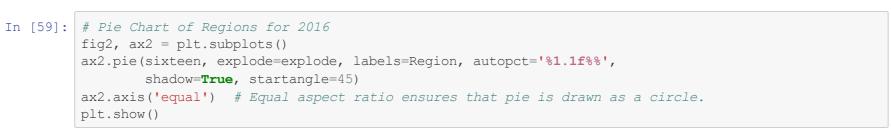
Reflection on Comparison

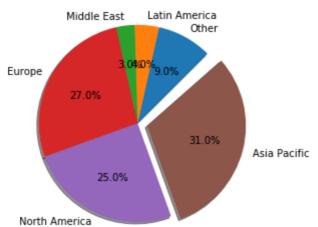
As the data shows, we can see the difference between the regions from 2000 to 2016 with the numbers either staying stagnant or dropping over the 16 year lapse. The only region with an increase over this time was the Asia Pacific region where we see a substantial rise in their numbers over the time.

Up Next

Using a Pie Chart to see the change in the percent of total for the regions and how that changes from 2000 to 2016.







Reflection

From what we see when comparing 2000 to 2016 we are seeing that there was a drop in the numbers but the Asia Pacific region where there was a 10% jump in their Travel Market numbers over the timespan.