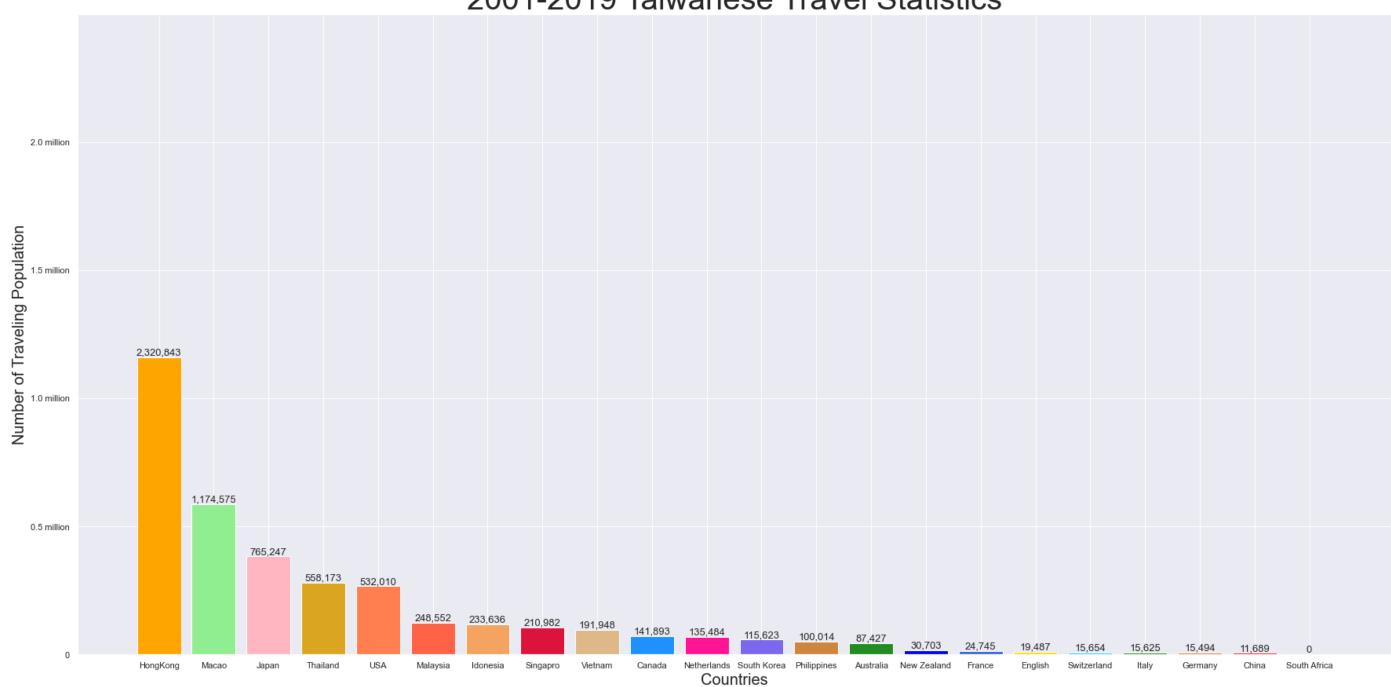
*This time, I'm gonna make several pictures since 2001 to 2019.

```
import pandas as pd
In [1]:
         import numpy as np
         import matplotlib.pyplot as plt
         import seaborn ; seaborn.set()
        data report = pd.read csv('https://gist.githubusercontent.com/ji394python/679a156b429829b9f1a4ff87c7f5b995/raw/7c297cfe89495e8185254ee82b25e1d99c8f7743/dataset.csv')
         data report['country'] = data report['country'].str.replace('香港', 'HongKong')
         data report['country'] = data report['country'].str.replace('義大利', 'Italy')
         data_report['country'] = data_report['country'].str.replace('德國', 'Germany')
         data_report['country'] = data_report['country'].str.replace('法國', 'France')
         data_report['country'] = data_report['country'].str.replace('美國', 'USA')
         data_report['country'] = data_report['country'].str.replace('加拿大', 'Canada')
         data_report['country'] = data_report['country'].str.replace('紐西蘭', 'New Zealand')
         data report['country'] = data_report['country'].str.replace('英國', 'English')
         data_report['country'] = data_report['country'].str.replace('澳門', 'Macao')
         data_report['country'] = data_report['country'].str.replace('荷蘭', 'Netherlands')
         data report['country'] = data report['country'].str.replace('越南', 'Vietnam')
         data report['country'] = data report['country'].str.replace('泰國', 'Thailand')
         data_report['country'] = data_report['country'].str.replace('菲律賓', 'Philippines')
         data_report['country'] = data_report['country'].str.replace('中國大陸', 'China')
         data report['country'] = data report['country'].str.replace('印尼', 'Idonesia')
         data_report['country'] = data_report['country'].str.replace('澳大利亞', 'Australia')
         data report['country'] = data report['country'].str.replace('新加坡', 'Singapro')
         data report['country'] = data report['country'].str.replace('馬來西亞', 'Malaysia')
         data_report['country'] = data_report['country'].str.replace('南韓', 'South Korea')
         data_report['country'] = data_report['country'].str.replace('南非', 'South Africa')
         data_report['country'] = data_report['country'].str.replace('瑞士', 'Switzerland')
         data report['country'] = data report['country'].str.replace('日本', 'Japan')
         first_year = data_report['data_report['date'].str.contains('2001')][['date', 'country', 'value']]
         second_year = data_report[data_report['date'].str.contains('2002')][['date', 'country', 'value']]
         third year = data report['data report['date'].str.contains('2003')][['date', 'country', 'value']]
         forth_year = data_report['data_report['date'].str.contains('2004')][['date', 'country', 'value']]
         fifth_year = data_report[data_report['date'].str.contains('2005')][['date', 'country', 'value']]
         sixth_year = data_report[data_report['date'].str.contains('2006')][['date', 'country', 'value']]
         seventh_year = data_report[data_report['date'].str.contains('2007')][['date', 'country', 'value']]
         eighth year = data_report[data_report['date'].str.contains('2008')][['date', 'country', 'value']]
         ninth year = data_report['data_report['date'].str.contains('2009')][['date', 'country', 'value']]
         tenth_year = data_report[data_report['date'].str.contains('2010')][['date', 'country', 'value']]
         elevenst_year = data_report[data_report['date'].str.contains('2011')][['date', 'country', 'value']]
         twelthrd_year = data_report['data_report['date'].str.contains('2012')][['date', 'country', 'value']]
         thirthinth_year = data_report['date'].str.contains('2013')][['date', 'country', 'value']]
         forthinth_year = data_report[data_report['date'].str.contains('2014')][['date', 'country', 'value']]
         fifthinth_year = data_report[data_report['date'].str.contains('2015')][['date', 'country', 'value']]
         sixteenth_year = data_report[data_report['date'].str.contains('2016')][['date', 'country', 'value']]
         seventinth_year = data_report[data_report['date'].str.contains('2017')][['date', 'country', 'value']]
         eightinth year = data report[data report['date'].str.contains('2018')][['date', 'country', 'value']]
         nintinth_year = data_report[data_report['date'].str.contains('2019')][['date', 'country', 'value']]
In [3]: # Made a dictionary, one country has one color. It is more convenient to understand.
         colors = {
             'HongKong': 'orange',
             'Italy': 'green',
             'Germany': 'chocolate',
             'France': 'royalblue',
             'USA': 'coral',
             'Canada':'dodgerblue',
             'New Zealand': 'blue',
             'English':'gold',
             'Macao':'lightgreen',
             'Netherlands': 'deeppink',
             'Vietnam': 'burlywood',
             'Thailand': 'goldenrod',
             'Philippines':'peru',
             'China': 'red',
             'Idonesia': 'sandybrown',
             'Australia': 'forestgreen',
             'Singapro': 'crimson',
             'Malaysia':'tomato',
             'South Korea': 'mediumslateblue',
             'South Africa': 'darkgoldenrod',
             'Switzerland': 'deepskyblue',
             'Japan':'lightpink'
```

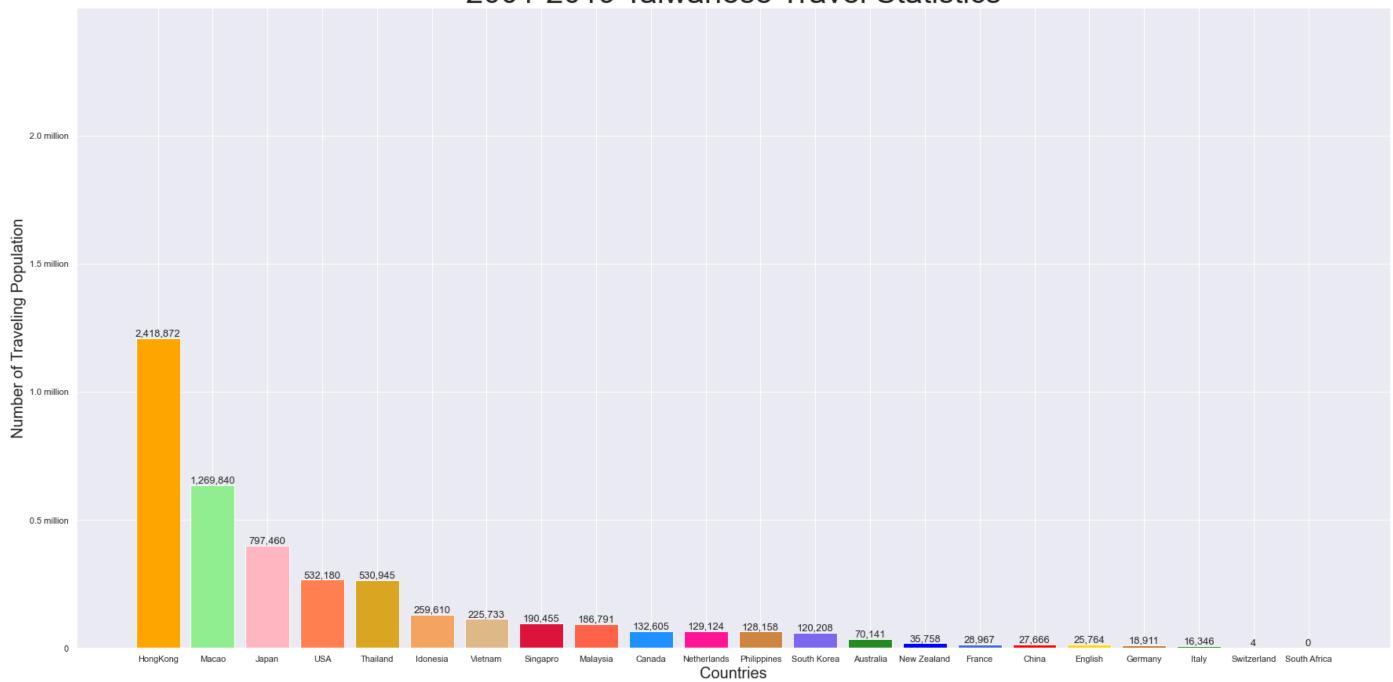
- 1. Using FOR to set up colors
- 2. Using FOR to set up numbers on each bar. Don't have to check the ylabel to understand how many is now.

```
first_year = first_year.groupby('country')['value'].sum()
first_year = pd.DataFrame(first_year).reset_index()
first_year = first_year.sort_values('value', ascending=False)
first_year = first_year.reset_index(drop=True)
x = first_year['country'].values
y = first_year['value'].values
fig, axes = plt.subplots(figsize=(30, 15))
axes = plt.axes()
axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
axes.set_xlabel('Countries', fontsize=20)
axes.set_ylabel('Number of Traveling Population', fontsize=20)
axes.set_yticks(np.arange(0, 5000000, 1000000))
axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
axes.set_ylim(0, 5000000)
axes.bar(x, y, color=[colors[x] for x in first_year['country']])
for xx, yy in enumerate(y):
    axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
plt.show()
```

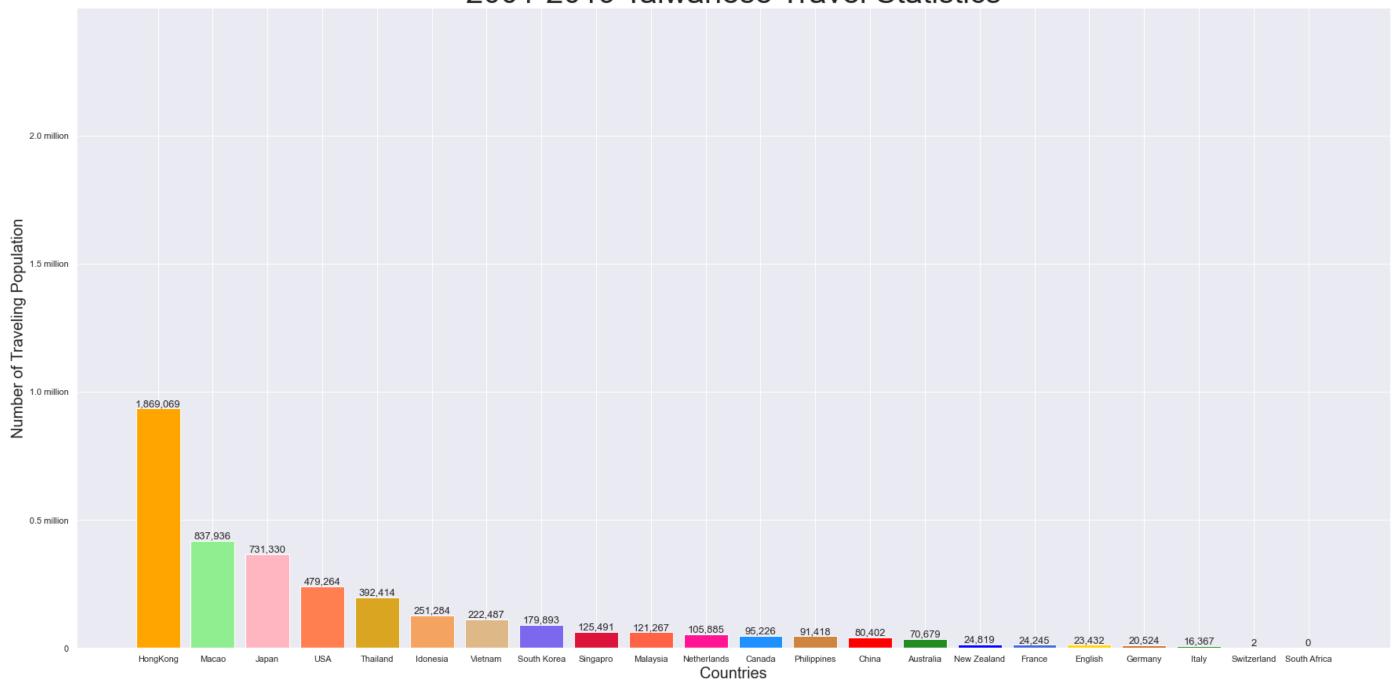




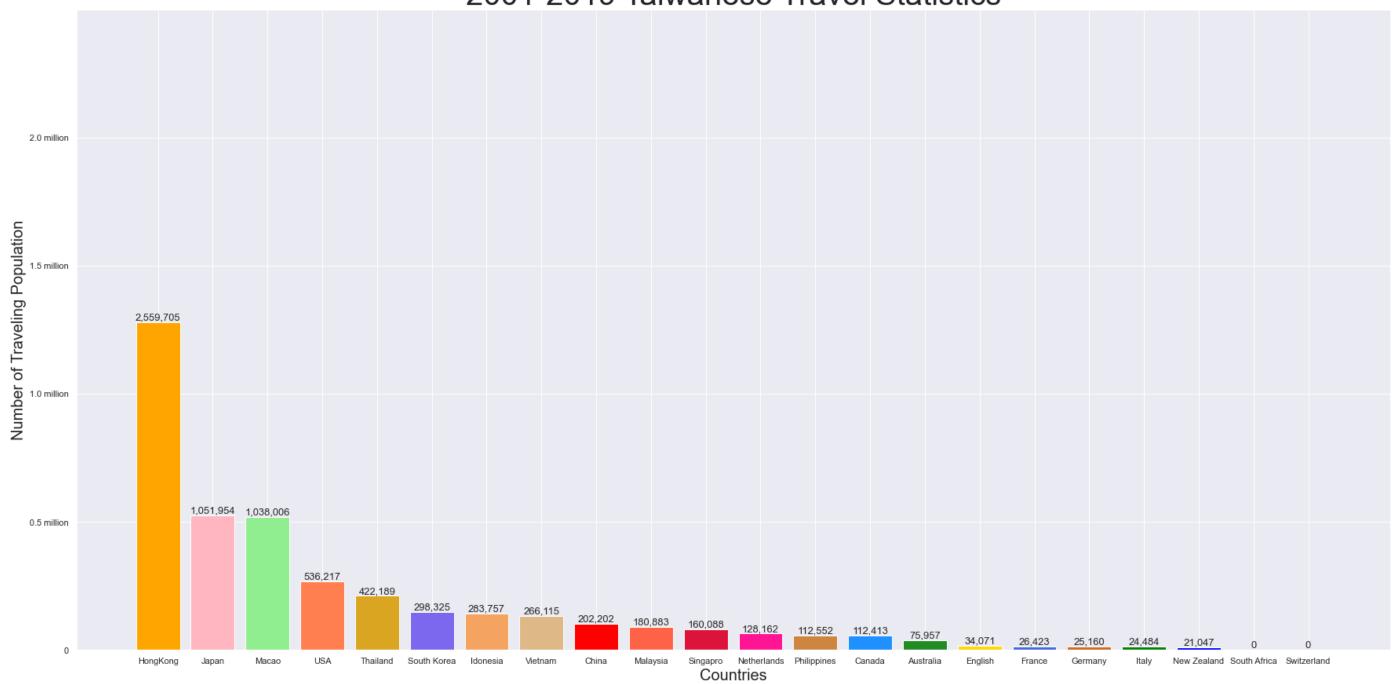
```
second_year = second_year.groupby('country')['value'].sum()
In [5]:
         second_year = pd.DataFrame(second_year).reset_index()
         second_year = second_year.sort_values('value', ascending=False)
         second_year = second_year.reset_index(drop=True)
         x = second_year['country'].values
         y = second_year['value'].values
         fig, axes = plt.subplots(figsize=(30, 15))
         axes = plt.axes()
         axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
         axes.set_xlabel('Countries', fontsize=20)
         axes.set_ylabel('Number of Traveling Population', fontsize=20)
         axes.set_yticks(np.arange(0, 5000000, 1000000))
         axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
         axes.set_ylim(0, 5000000)
         axes.bar(x, y, color=[colors[x] for x in second_year['country']])
         for xx, yy in enumerate(y):
             axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
         plt.show()
```



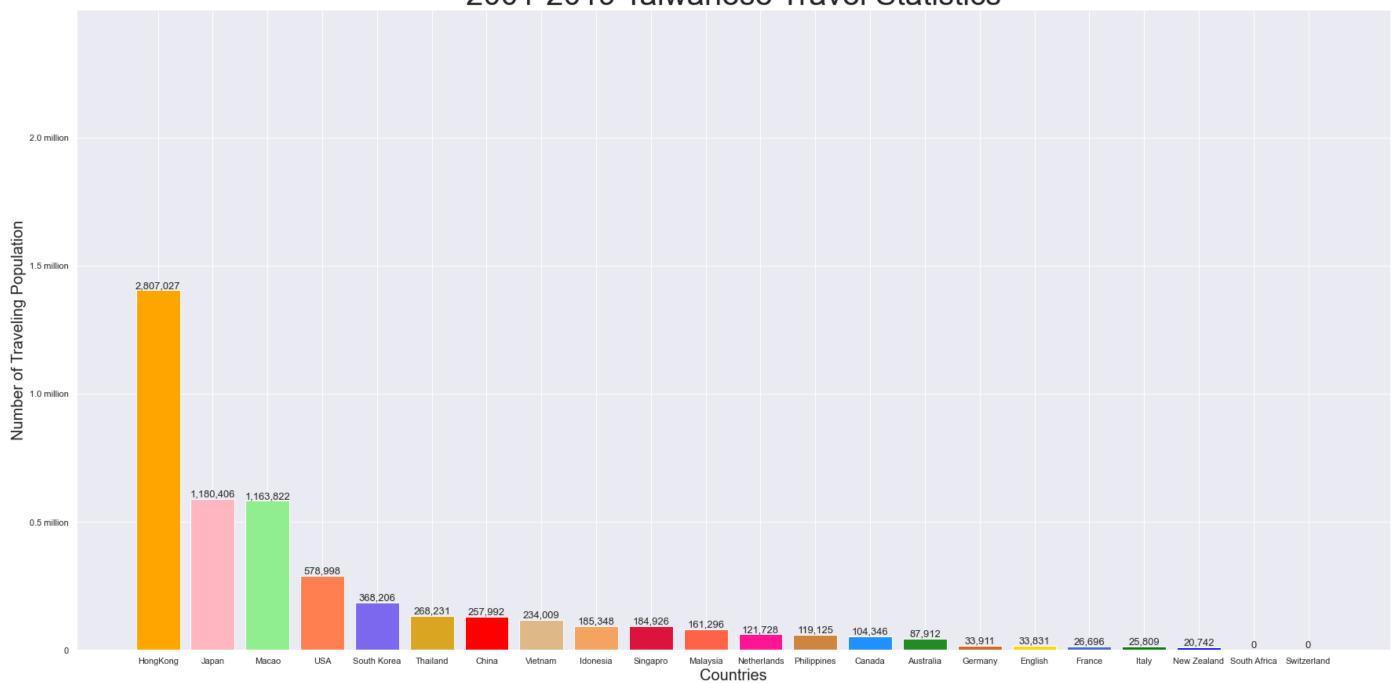
```
third_year = third_year.groupby('country')['value'].sum()
In [6]:
         third_year = pd.DataFrame(third_year).reset_index()
         third_year = third_year.sort_values('value', ascending=False)
         third_year = third_year.reset_index(drop=True)
         x = third_year['country'].values
         y = third_year['value'].values
         fig, axes = plt.subplots(figsize=(30, 15))
         axes = plt.axes()
         axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
         axes.set_xlabel('Countries', fontsize=20)
         axes.set_ylabel('Number of Traveling Population', fontsize=20)
         axes.set_yticks(np.arange(0, 5000000, 1000000))
         axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
         axes.set_ylim(0, 5000000)
         axes.bar(x, y, color=[colors[x] for x in third_year['country']])
         for xx, yy in enumerate(y):
             axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
         plt.show()
```



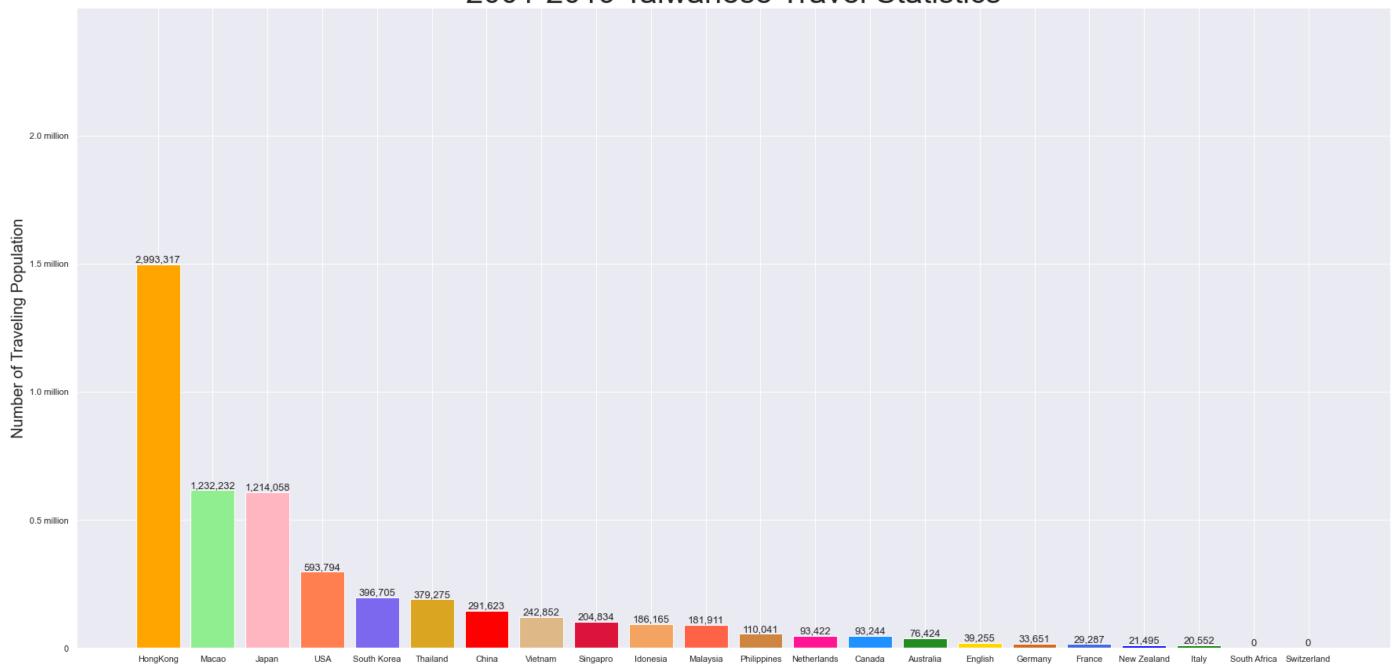
```
In [7]: forth_year = forth_year.groupby('country')['value'].sum()
         forth_year = pd.DataFrame(forth_year).reset_index()
         forth_year = forth_year.sort_values('value', ascending=False)
         forth_year = forth_year.reset_index(drop=True)
         x = forth_year['country'].values
         y = forth_year['value'].values
         fig, axes = plt.subplots(figsize=(30, 15))
         axes = plt.axes()
         axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
         axes.set_xlabel('Countries', fontsize=20)
         axes.set_ylabel('Number of Traveling Population', fontsize=20)
         axes.set_yticks(np.arange(0, 5000000, 1000000))
         axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
         axes.set_ylim(0, 5000000)
         axes.bar(x, y, color=[colors[x] for x in forth_year['country']])
         for xx, yy in enumerate(y):
             axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
         plt.show()
```



```
In [8]: fifth_year = fifth_year.groupby('country')['value'].sum()
         fifth_year = pd.DataFrame(fifth_year).reset_index()
         fifth_year = fifth_year.sort_values('value', ascending=False)
         fifth_year = fifth_year.reset_index(drop=True)
         x = fifth_year['country'].values
         y = fifth_year['value'].values
         fig, axes = plt.subplots(figsize=(30, 15))
         axes = plt.axes()
         axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
         axes.set_xlabel('Countries', fontsize=20)
         axes.set_ylabel('Number of Traveling Population', fontsize=20)
         axes.set_yticks(np.arange(0, 5000000, 1000000))
         axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
         axes.set_ylim(0, 5000000)
         axes.bar(x, y, color=[colors[x] for x in fifth_year['country']])
         for xx, yy in enumerate(y):
             axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
         plt.show()
```

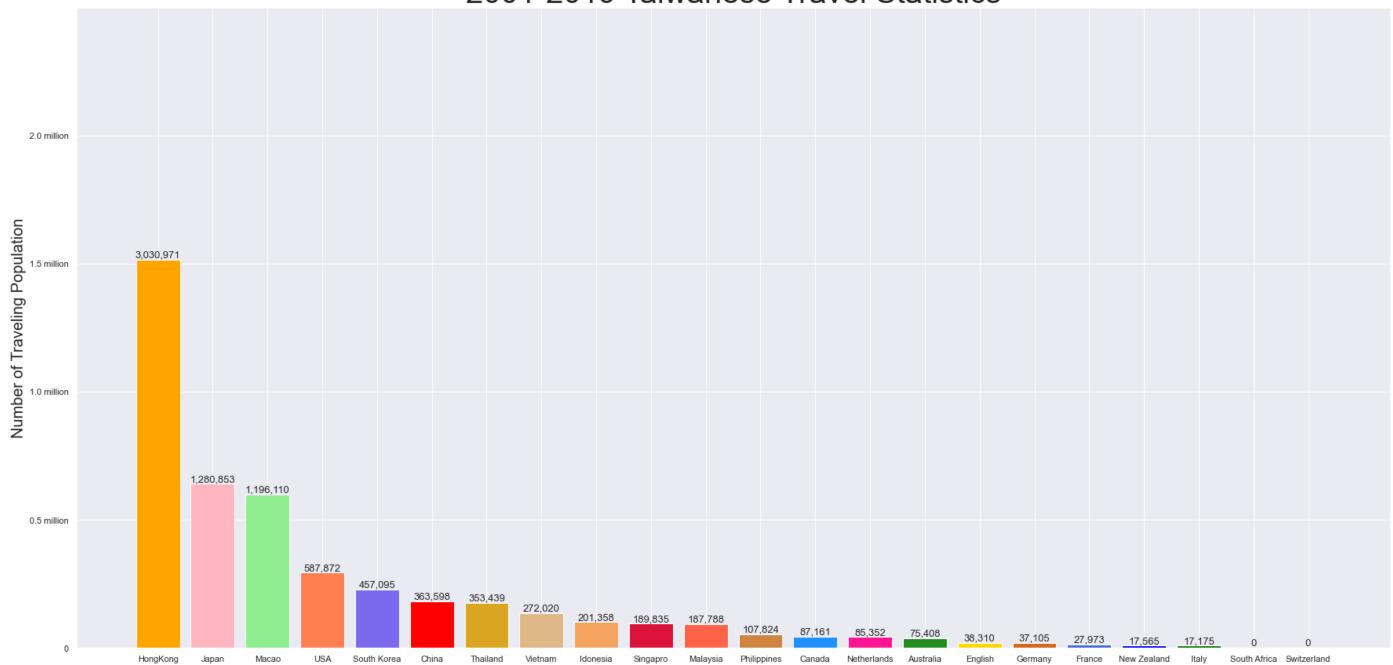


```
In [9]: sixth_year = sixth_year.groupby('country')['value'].sum()
         sixth_year = pd.DataFrame(sixth_year).reset_index()
         sixth_year = sixth_year.sort_values('value', ascending=False)
         sixth_year = sixth_year.reset_index(drop=True)
         x = sixth_year['country'].values
         y = sixth_year['value'].values
         fig, axes = plt.subplots(figsize=(30, 15))
         axes = plt.axes()
         axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
         axes.set_xlabel('Countries', fontsize=20)
         axes.set_ylabel('Number of Traveling Population', fontsize=20)
         axes.set_yticks(np.arange(0, 5000000, 1000000))
         axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
         axes.set_ylim(0, 5000000)
         axes.bar(x, y, color=[colors[x] for x in sixth_year['country']])
         for xx, yy in enumerate(y):
             axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
         plt.show()
```

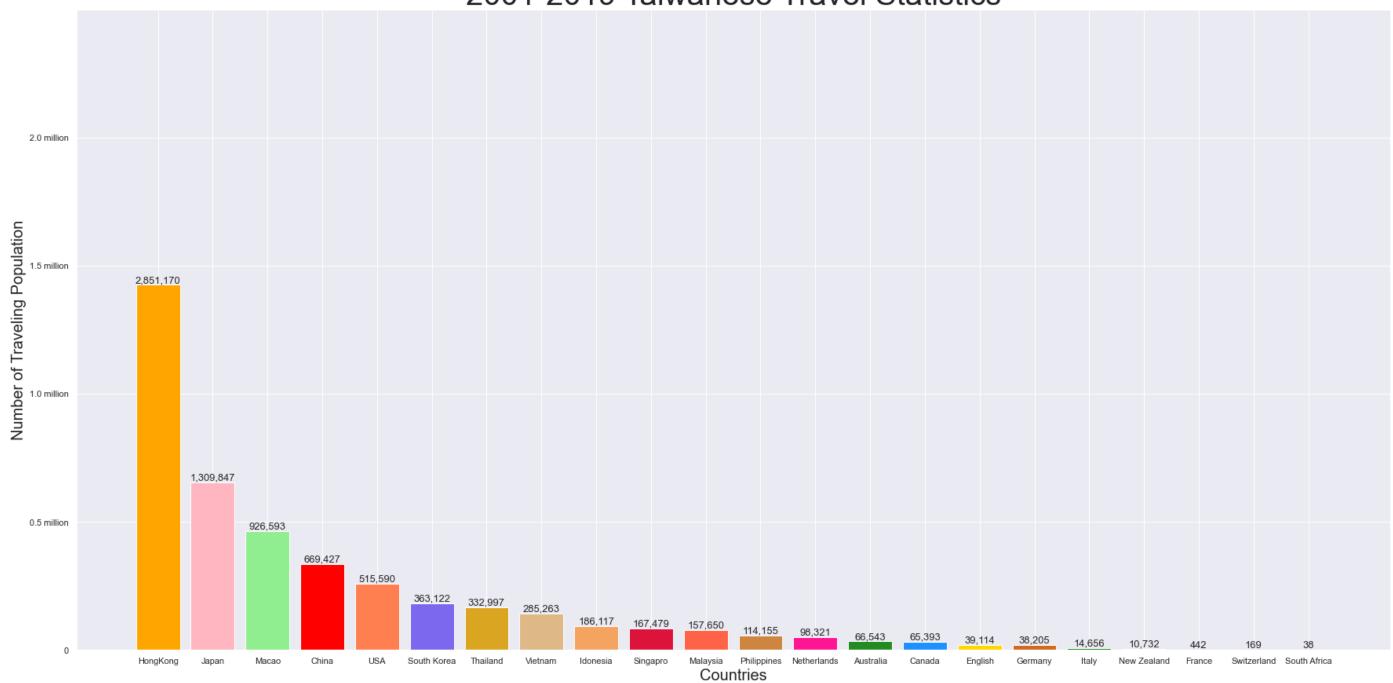


Countries

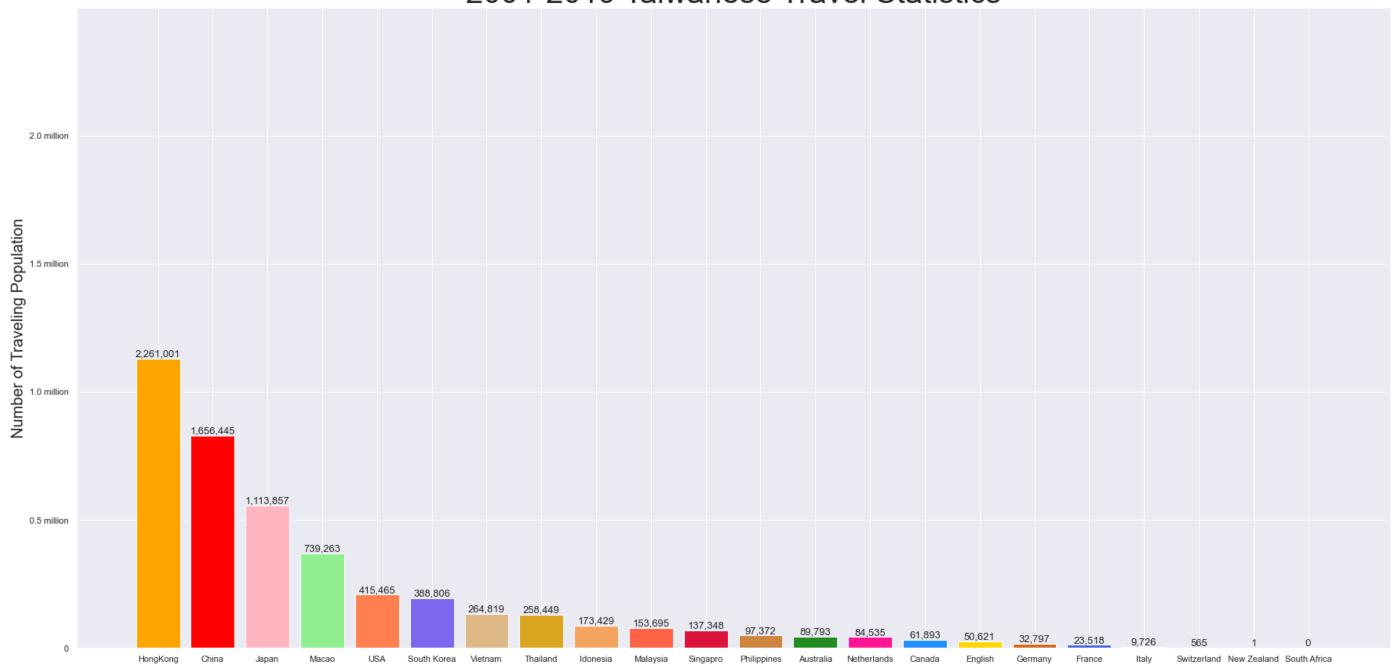
```
seventh_year = seventh_year.groupby('country')['value'].sum()
In [10]:
          seventh_year = pd.DataFrame(seventh_year).reset_index()
          seventh_year = seventh_year.sort_values('value', ascending=False)
          seventh_year = seventh_year.reset_index(drop=True)
          x = seventh_year['country'].values
          y = seventh_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in seventh_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



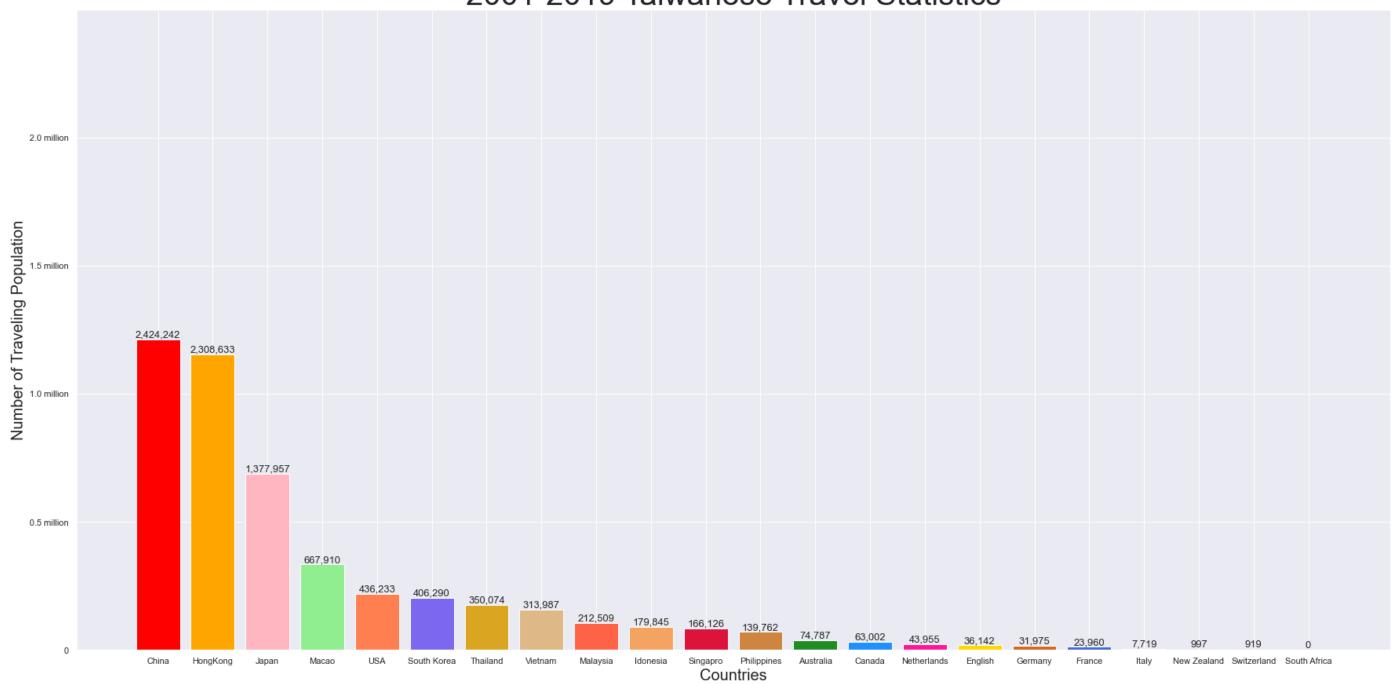
```
Countries
         eighth_year = eighth_year.groupby('country')['value'].sum()
In [11]:
          eighth_year = pd.DataFrame(eighth_year).reset_index()
          eighth_year = eighth_year.sort_values('value', ascending=False)
          eighth_year = eighth_year.reset_index(drop=True)
          x = eighth_year['country'].values
          y = eighth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in eighth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



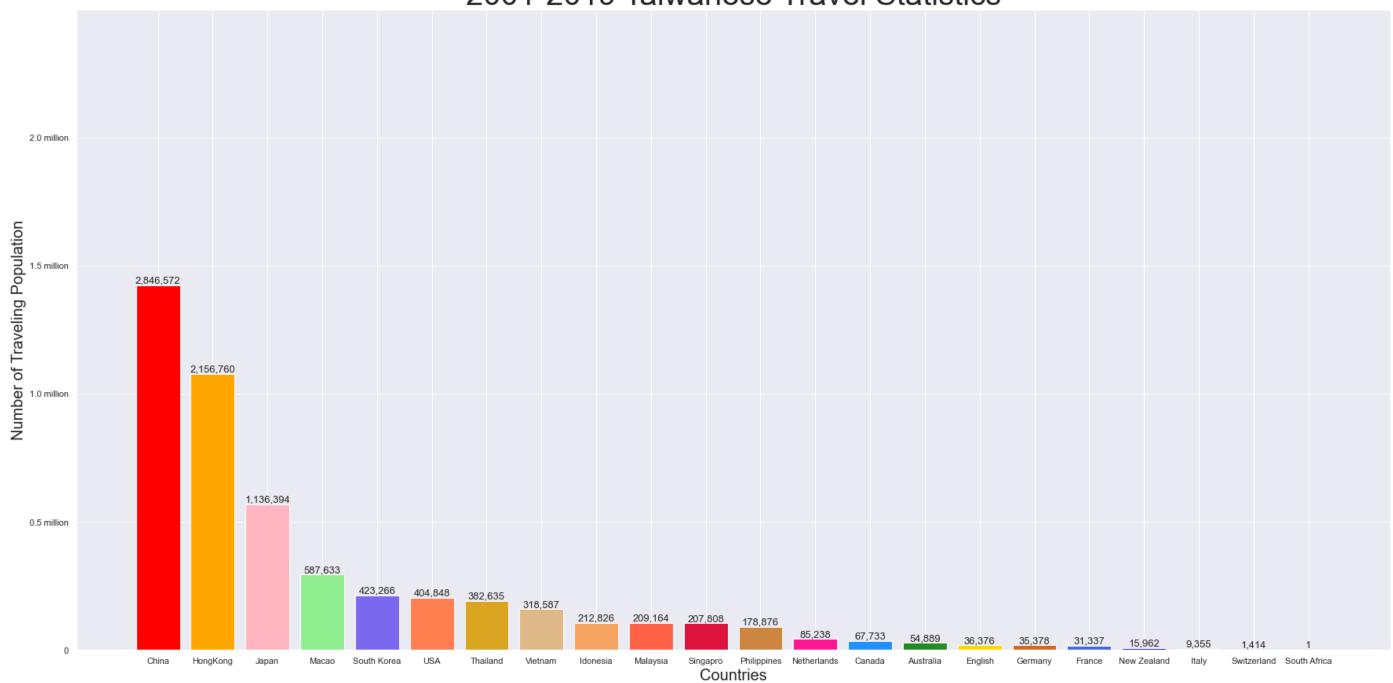
```
In [12]:
         ninth_year = ninth_year.groupby('country')['value'].sum()
          ninth_year = pd.DataFrame(ninth_year).reset_index()
          ninth_year = ninth_year.sort_values('value', ascending=False)
          ninth_year = ninth_year.reset_index(drop=True)
          x = ninth_year['country'].values
          y = ninth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in ninth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



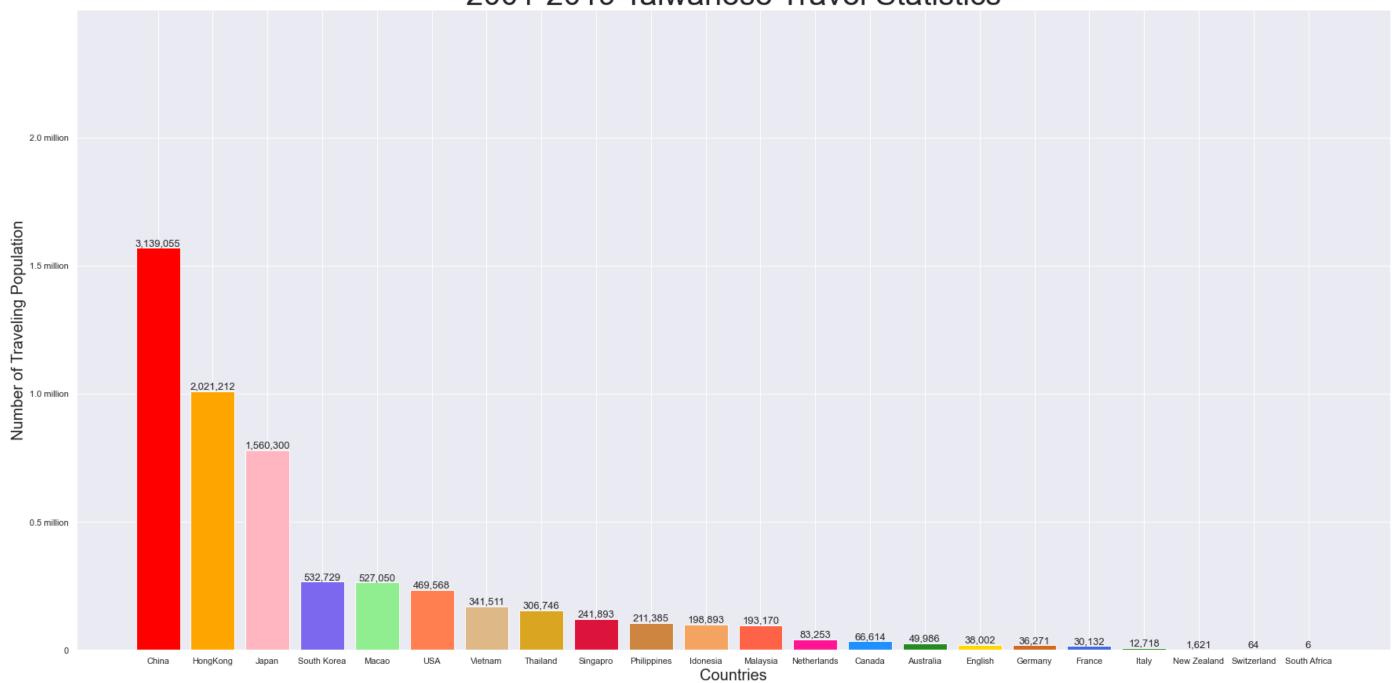
```
Countries
In [13]: tenth_year = tenth_year.groupby('country')['value'].sum()
          tenth_year = pd.DataFrame(tenth_year).reset_index()
          tenth_year = tenth_year.sort_values('value', ascending=False)
          tenth_year = tenth_year.reset_index(drop=True)
          x = tenth_year['country'].values
          y = tenth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in tenth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



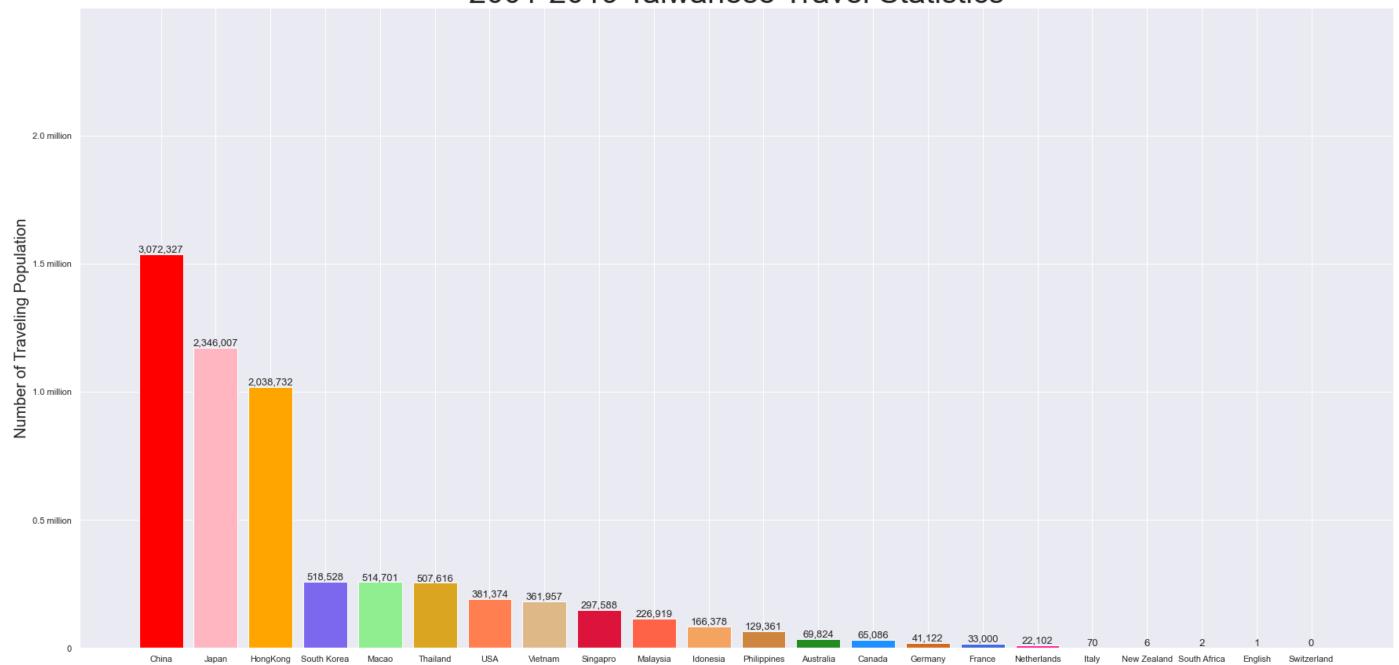
```
elevenst_year = elevenst_year.groupby('country')['value'].sum()
In [14]:
          elevenst_year = pd.DataFrame(elevenst_year).reset_index()
          elevenst_year = elevenst_year.sort_values('value', ascending=False)
          elevenst_year = elevenst_year.reset_index(drop=True)
          x = elevenst_year['country'].values
          y = elevenst_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in elevenst_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



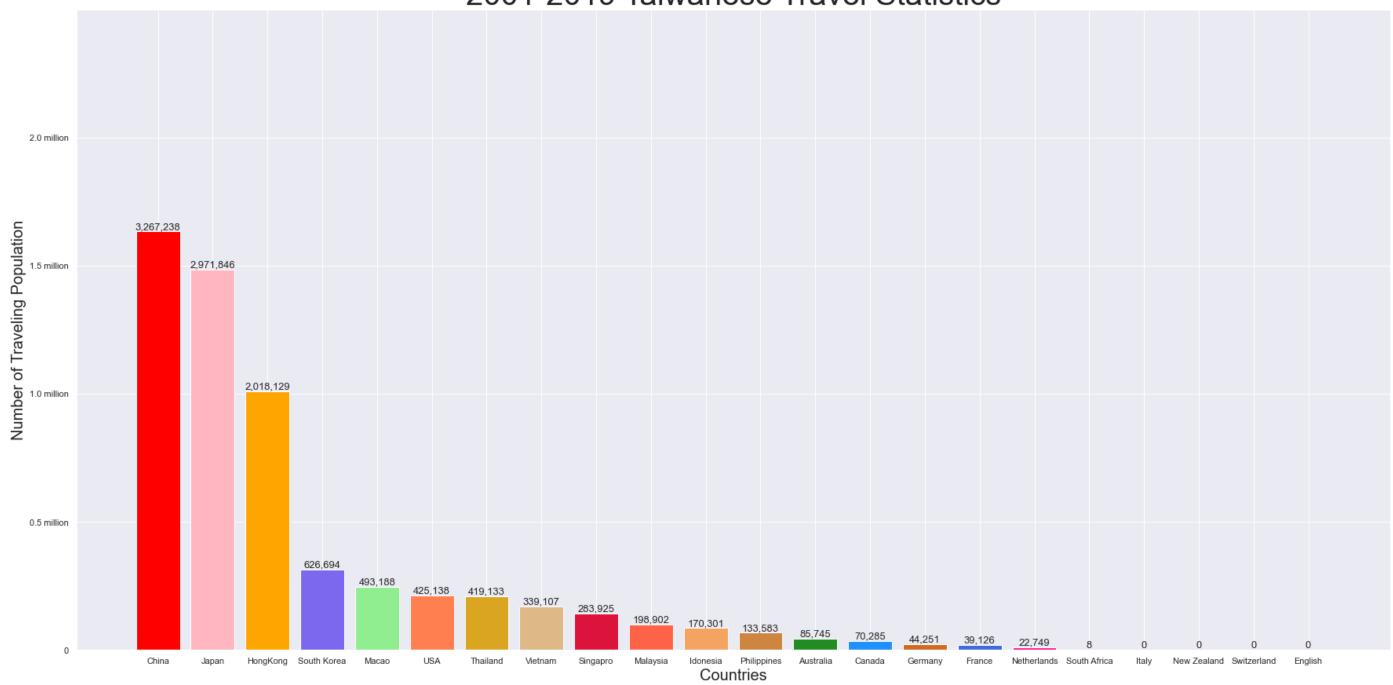
```
In [15]:
         twelthrd_year = twelthrd_year.groupby('country')['value'].sum()
          twelthrd_year = pd.DataFrame(twelthrd_year).reset_index()
          twelthrd_year = twelthrd_year.sort_values('value', ascending=False)
          twelthrd_year = twelthrd_year.reset_index(drop=True)
          x = twelthrd_year['country'].values
          y = twelthrd_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in twelthrd_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



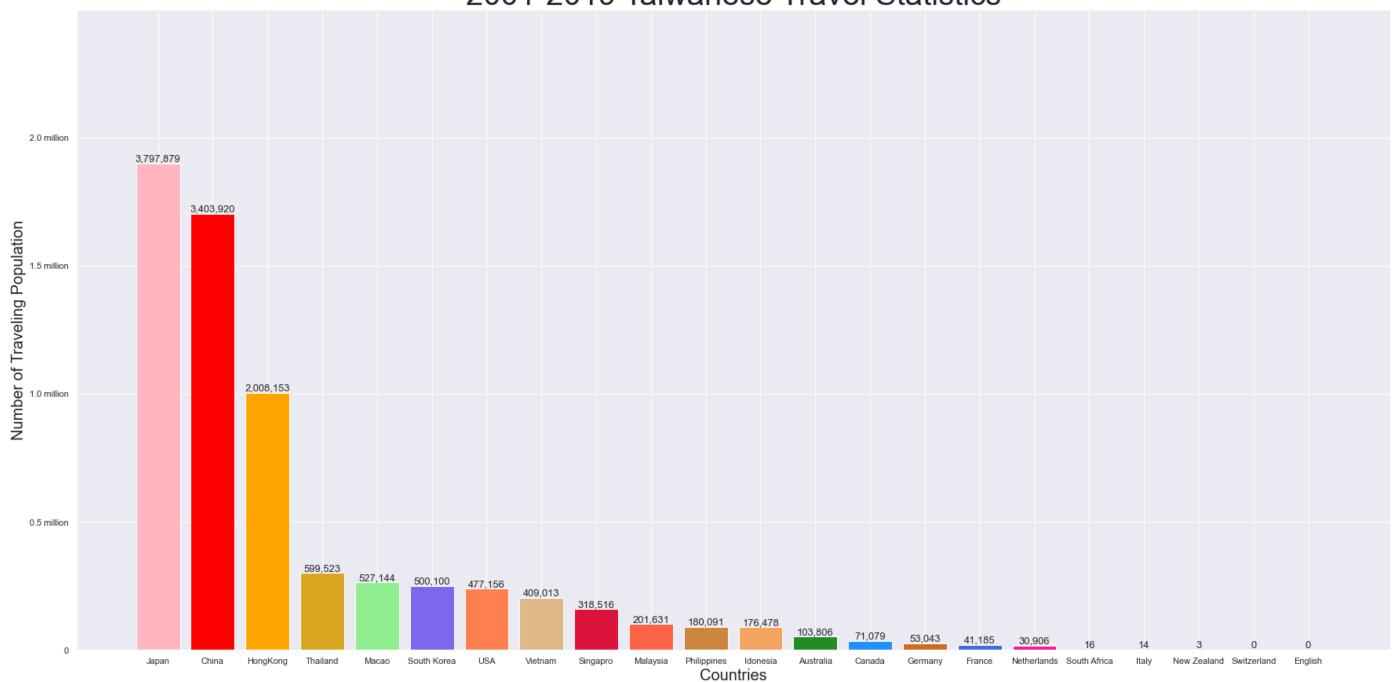
```
thirthinth_year = thirthinth_year.groupby('country')['value'].sum()
thirthinth_year = pd.DataFrame(thirthinth_year).reset_index()
thirthinth_year = thirthinth_year.sort_values('value', ascending=False)
thirthinth_year = thirthinth_year.reset_index(drop=True)
x = thirthinth_year['country'].values
y = thirthinth_year['value'].values
fig, axes = plt.subplots(figsize=(30, 15))
axes = plt.axes()
axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
axes.set_xlabel('Countries', fontsize=20)
axes.set_ylabel('Number of Traveling Population', fontsize=20)
axes.set_yticks(np.arange(0, 5000000, 1000000))
axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
axes.set_ylim(0, 5000000)
axes.bar(x, y, color=[colors[x] for x in thirthinth_year['country']])
for xx, yy in enumerate(y):
    axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
plt.show()
```



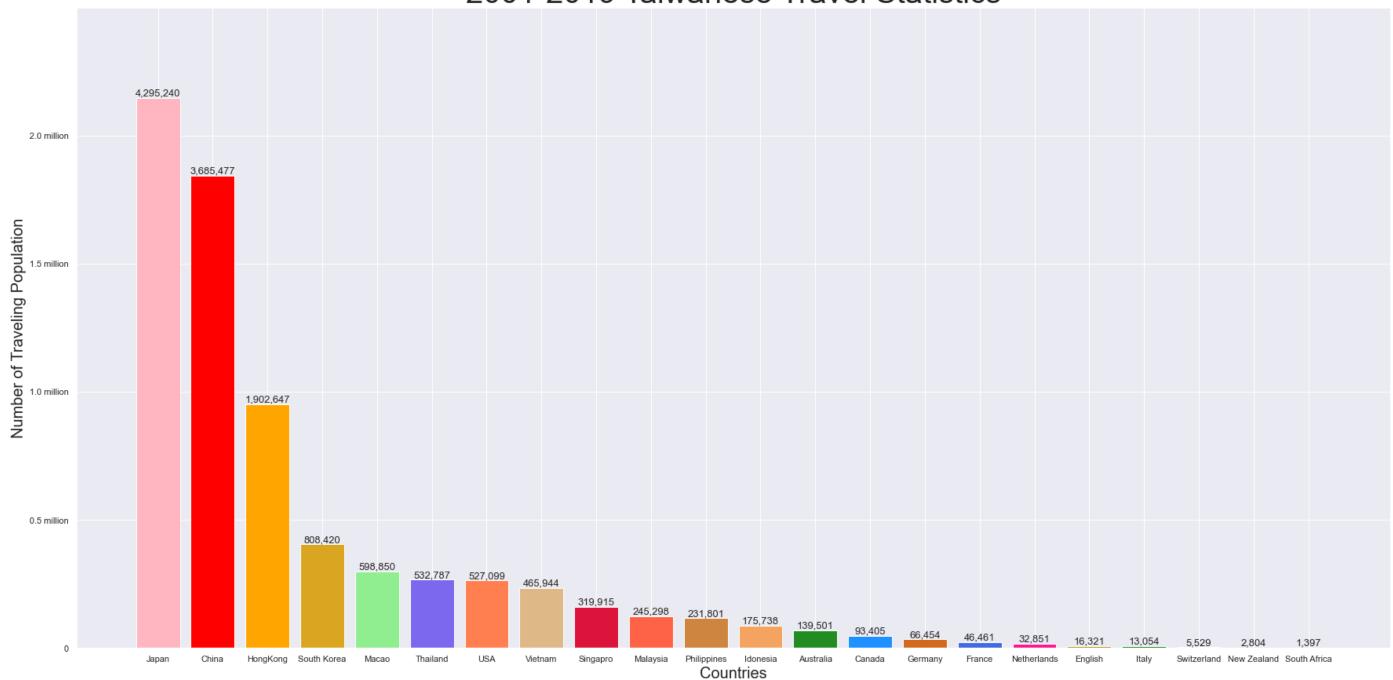
```
Countries
         forthinth_year = forthinth_year.groupby('country')['value'].sum()
In [17]:
          forthinth_year = pd.DataFrame(forthinth_year).reset_index()
          forthinth_year = forthinth_year.sort_values('value', ascending=False)
          forthinth_year = forthinth_year.reset_index(drop=True)
          x = forthinth_year['country'].values
          y = forthinth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in forthinth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



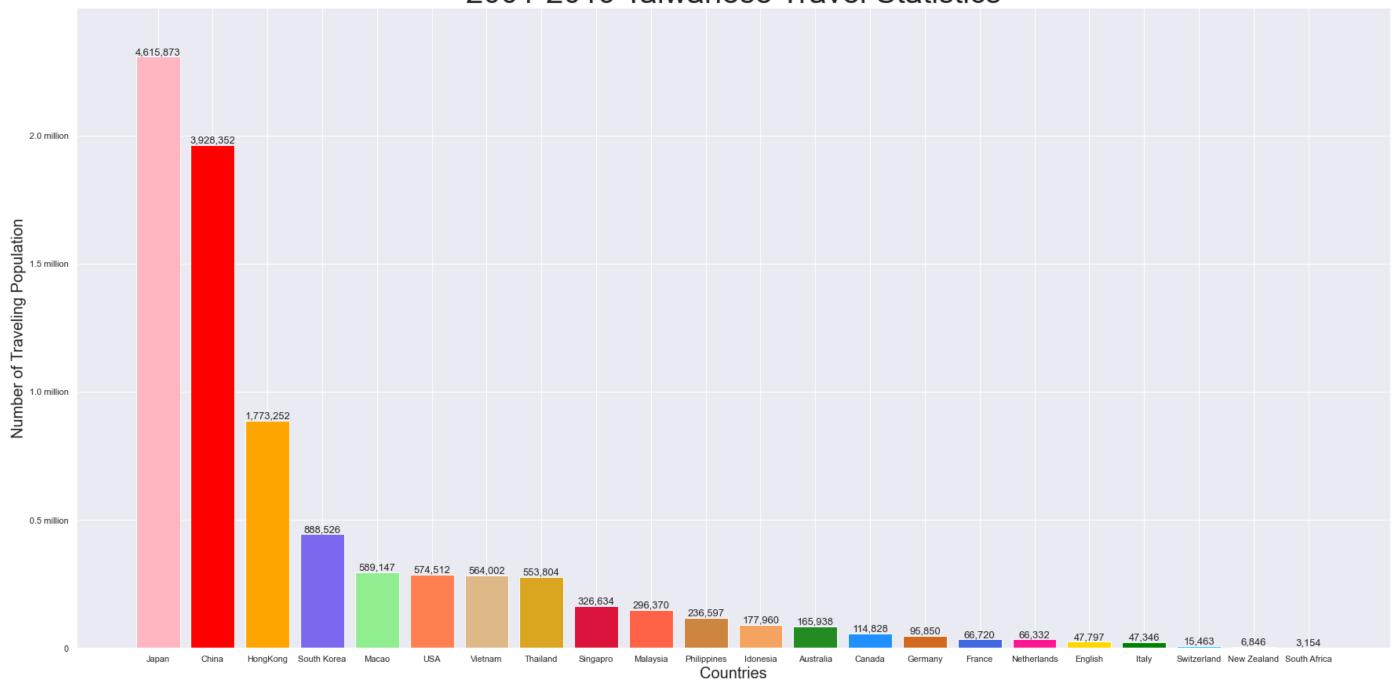
```
In [18]: fifthinth_year = fifthinth_year.groupby('country')['value'].sum()
          fifthinth_year = pd.DataFrame(fifthinth_year).reset_index()
          fifthinth_year = fifthinth_year.sort_values('value', ascending=False)
          fifthinth_year = fifthinth_year.reset_index(drop=True)
          x = fifthinth_year['country'].values
          y = fifthinth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in fifthinth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



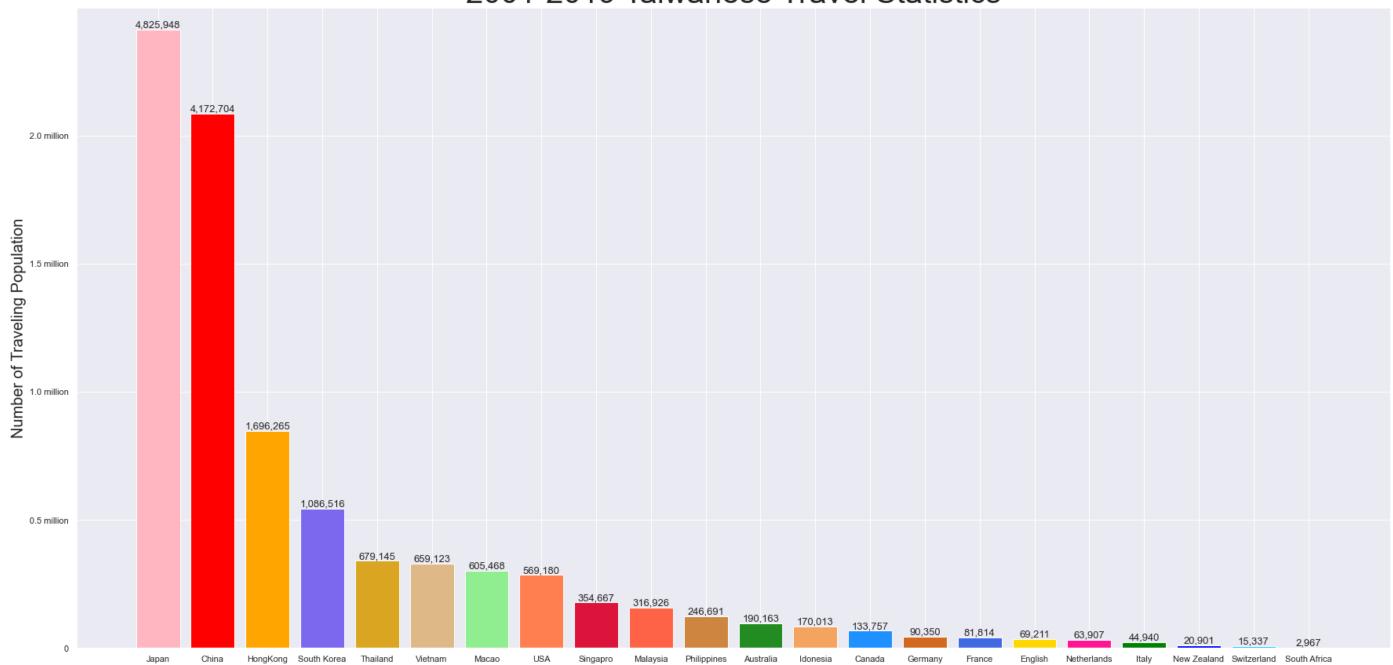
```
sixteenth_year = sixteenth_year.groupby('country')['value'].sum()
In [19]:
          sixteenth_year = pd.DataFrame(sixteenth_year).reset_index()
          sixteenth_year = sixteenth_year.sort_values('value', ascending=False)
          sixteenth_year = sixteenth_year.reset_index(drop=True)
          x = sixteenth_year['country'].values
          y = sixteenth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in fifthinth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



```
seventinth_year = seventinth_year.groupby('country')['value'].sum()
In [20]:
          seventinth_year = pd.DataFrame(seventinth_year).reset_index()
          seventinth_year = seventinth_year.sort_values('value', ascending=False)
          seventinth_year = seventinth_year.reset_index(drop=True)
          x = seventinth_year['country'].values
          y = seventinth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in seventinth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```

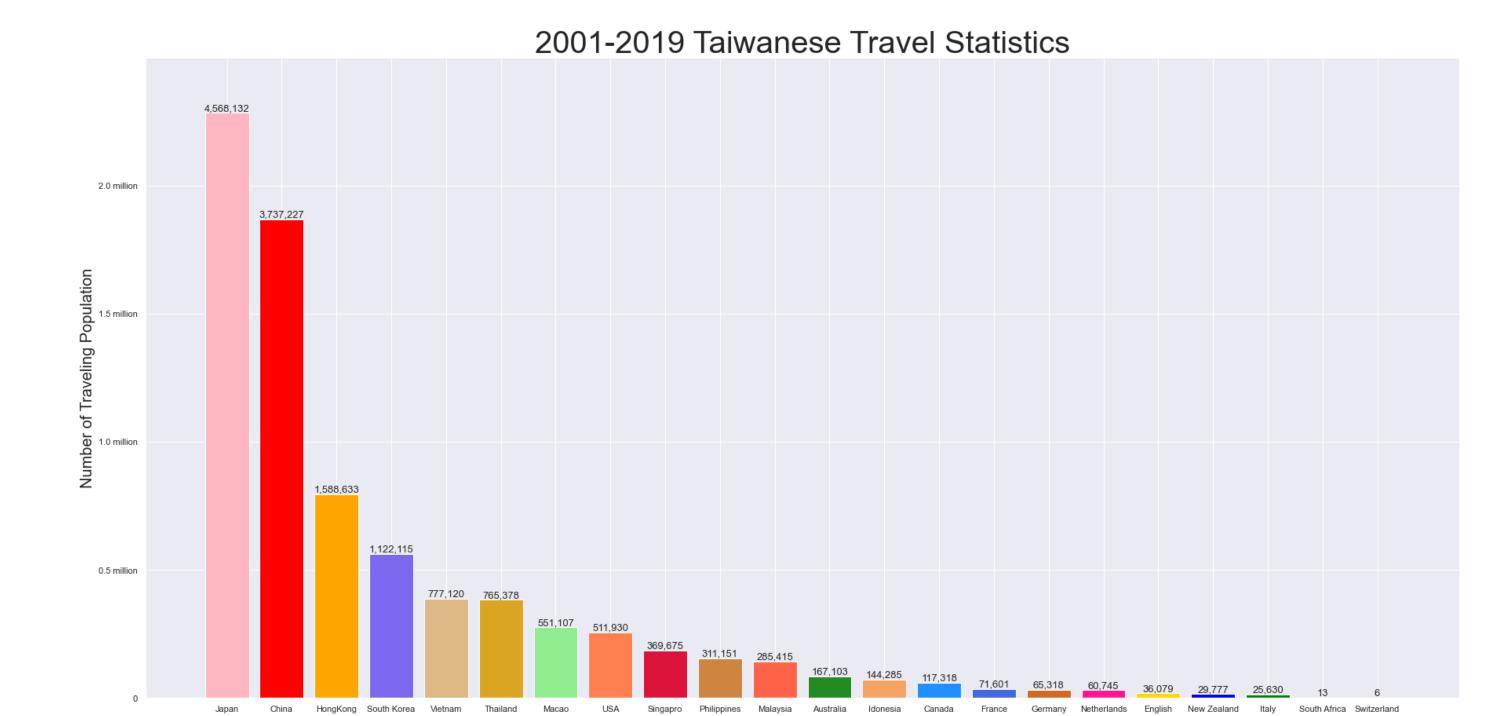


```
In [21]:
         eightinth_year = eightinth_year.groupby('country')['value'].sum()
          eightinth_year = pd.DataFrame(eightinth_year).reset_index()
          eightinth_year = eightinth_year.sort_values('value', ascending=False)
          eightinth_year = eightinth_year.reset_index(drop=True)
          x = eightinth_year['country'].values
          y = eightinth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in eightinth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



Countries

```
In [22]:
         nintinth_year = nintinth_year.groupby('country')['value'].sum()
          nintinth_year = pd.DataFrame(nintinth_year).reset_index()
          nintinth_year = nintinth_year.sort_values('value', ascending=False)
          nintinth_year = nintinth_year.reset_index(drop=True)
          x = nintinth_year['country'].values
          y = nintinth_year['value'].values
          fig, axes = plt.subplots(figsize=(30, 15))
          axes = plt.axes()
          axes.set_title('2001-2019 Taiwanese Travel Statistics', fontsize=40)
          axes.set_xlabel('Countries', fontsize=20)
          axes.set_ylabel('Number of Traveling Population', fontsize=20)
          axes.set_yticks(np.arange(0, 5000000, 1000000))
          axes.set_yticklabels(['0', '0.5 million', '1.0 million', '1.5 million', '2.0 million'])
          axes.set_ylim(0, 5000000)
          axes.bar(x, y, color=[colors[x] for x in nintinth_year['country']])
          for xx, yy in enumerate(y):
              axes.text(xx, yy, '{:,}'.format(int(yy)), ha='center', va='bottom', fontsize=13)
          plt.show()
```



Countries

Download all picture, we can make a flash to observe Taiwanese Travel conditions.