Dogs eaten by Country

Bar chart titled "Dogs eaten by Country" showing Dogs eaten (y-axis, 0 to 500) by Country (x-axis). United States ≈ 500, Japan ≈ 370, Mexico ≈ 20, Germany ≈ 10.

Dogs eaten by Country

Dogs eaten by Country

19.5 (2.17%)

369.88 (41.16%)

499.85 (55.62%)
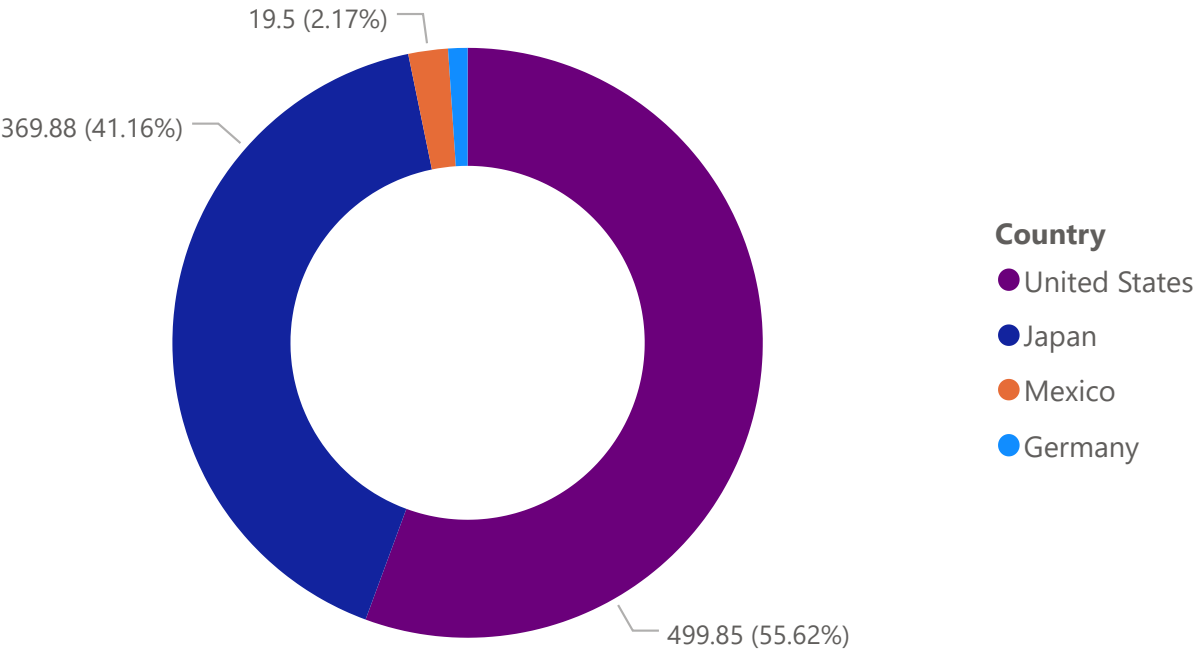
Country
- United States
- Japan
- Mexico
- Germany

Dogs eaten by Country

19.5 (2.17%)

369.88 (41.16%)

499.85 (55.62%)

Country
- United States
- Japan
- Mexico
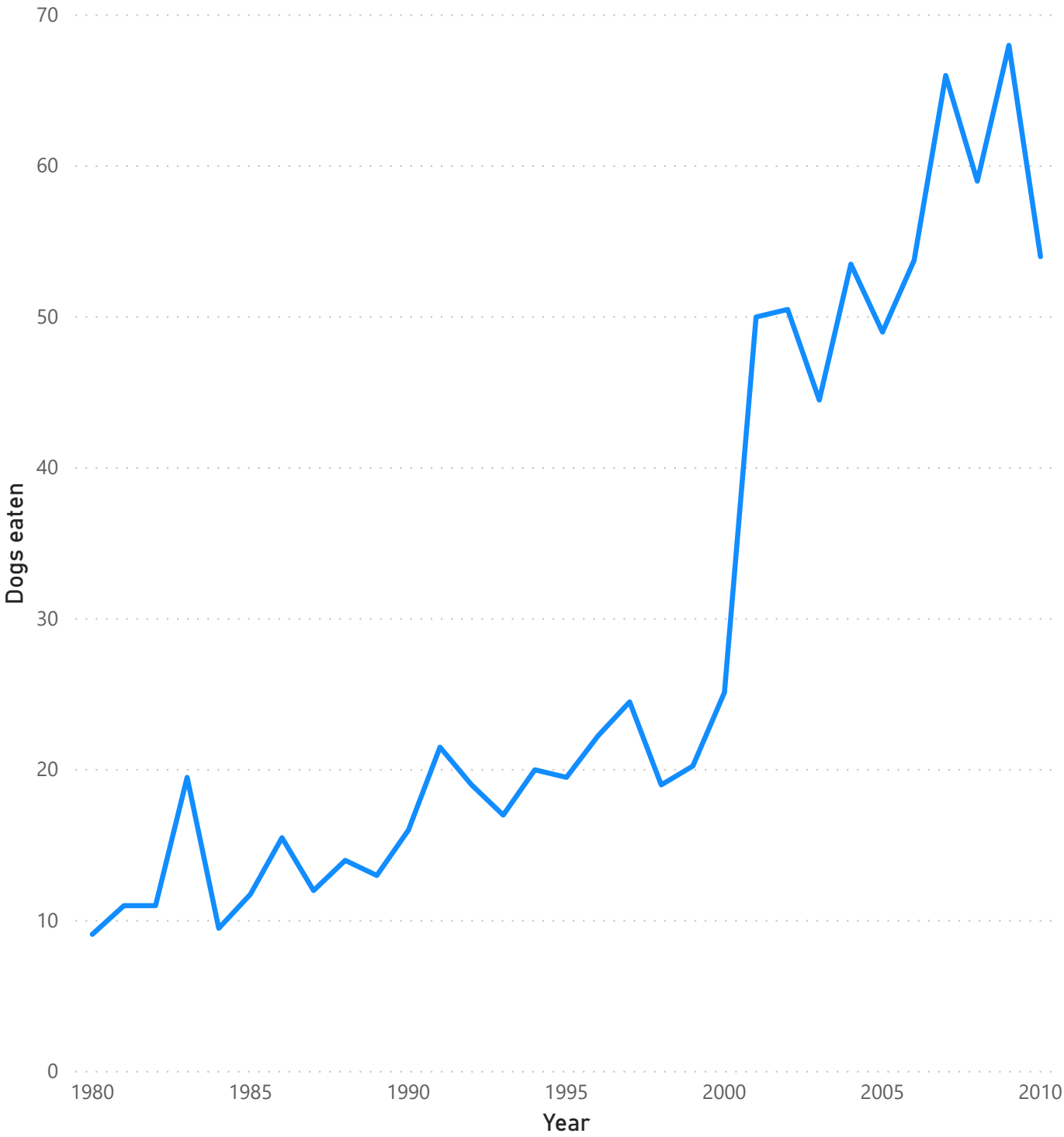- Germany

Dogs eaten by Year

```
In [1]:  # Import libraries
         import pandas as pd
         import matplotlib.pyplot as plt
         import numpy as np

         hotdogs_df = pd.read_excel(r"C:\\Users\\Gabe\\Documents\\Bellevue University\\Data
         Visualizations\\Week 1 & 2\\hotdog-contest-winners.xlsm")
         hotdogs_df.head()
```

Out[1]:

	Year	Winner	Dogs eaten	Country	New record
0	1980	Paul Siederman & Joe Baldini	9.1	United States	0
1	1981	Thomas DeBerry	11.0	United States	0
2	1982	Steven Abrams	11.0	United States	0
3	1983	Luis Llamas	19.5	Mexico	0
4	1984	Birgit Felden	9.5	Germany	0

```
In [2]:  # Bar chart

         plt.bar(hotdogs_df['Year'], hotdogs_df['Dogs eaten'], align='center', alpha = 0.5)
         plt.xlabel('Year of competion')
         plt.ylabel('Hotdogs Eaten')
         plt.title('Hotdogs Eaten for Each Year')
         plt.show()
```
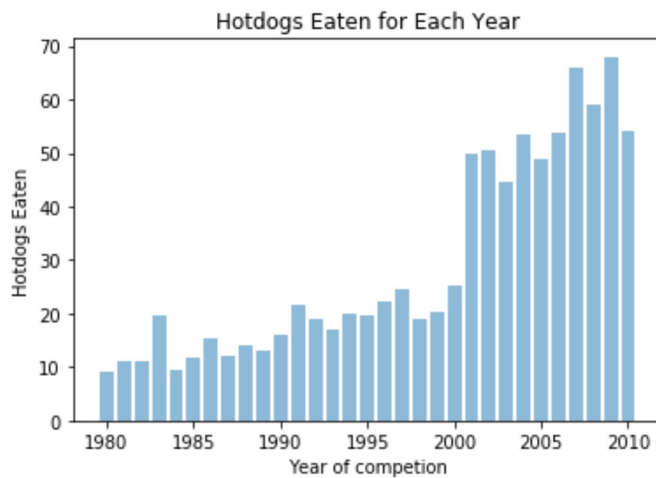
In [3]:
```python
# Stacked Bar Chart

fig, ax = plt.subplots(figsize=(10,7))
years = hotdogs_df['Year']
margin_bottom = np.zeros(len(hotdogs_df['Country'].drop_duplicates()))
colors = ["#bda000","#ccad00","#d6b600","#e6c300","#f0cc00","#ffdd1a","#ffe033","#f
fe44d","#ffe866","#ffec80","#bd7b00","#cc8500","#d68b00","#e69500","#f09c00","#ffaf
1a","#ffb833","#ffc14d","#ffc966","#ffd280","#8a3900","#994000","#a34400","#b34a0
0","#bd4f00","#e66000","#ff6a00","#ff791a","#ff8833","#ff974d", "#bd0000"]


for num, year in enumerate(years):

    values = list(hotdogs_df[hotdogs_df['Year'] == year].loc[:, 'Dogs eaten'])

    hotdogs_df[hotdogs_df['Year'] == year].plot.bar(x='Country', y='Dogs eaten', ax
=ax, stacked=True, bottom = margin_bottom, color = colors[num], label = year)

    margin_bottom += values


plt.ylabel('Hotdogs Eaten')
plt.xlabel('Winning Countries')
plt.title("Hotdogs Eaten by U.S. Ear Year")
plt.show()



#us_hotdogs = hotdogs_df[hotdogs_df['Country']=='United States']
#jpn_hotdogs = hotdogs_df[hotdogs_df['Country']=='Japan']
#mx_hotdogs = hotdogs_df[hotdogs_df['Country']=='Mexico']
#grm_hotdogs = hotdogs_df[hotdogs_df['Country']=='Germany']

#plt.bar(us_hotdogs['Year'], us_hotdogs['Dogs eaten'])
#plt.bar(jpn_hotdogs['Year'], jpn_hotdogs['Dogs eaten'], bottom=us_hotdogs)
#plt.bar(mx_hotdogs['Year'], mx_hotdogs['Dogs eaten'], bottom=jpn_hotdogs)
#plt.bar(grm_hotdogs['Year'], grm_hotdogs['Dogs eaten'], bottom=mx_hotdogs)


#plt.xticks(countries, fontwieght='bold')
#plt.xlabel('Winning Countries')

#plt.show()
```
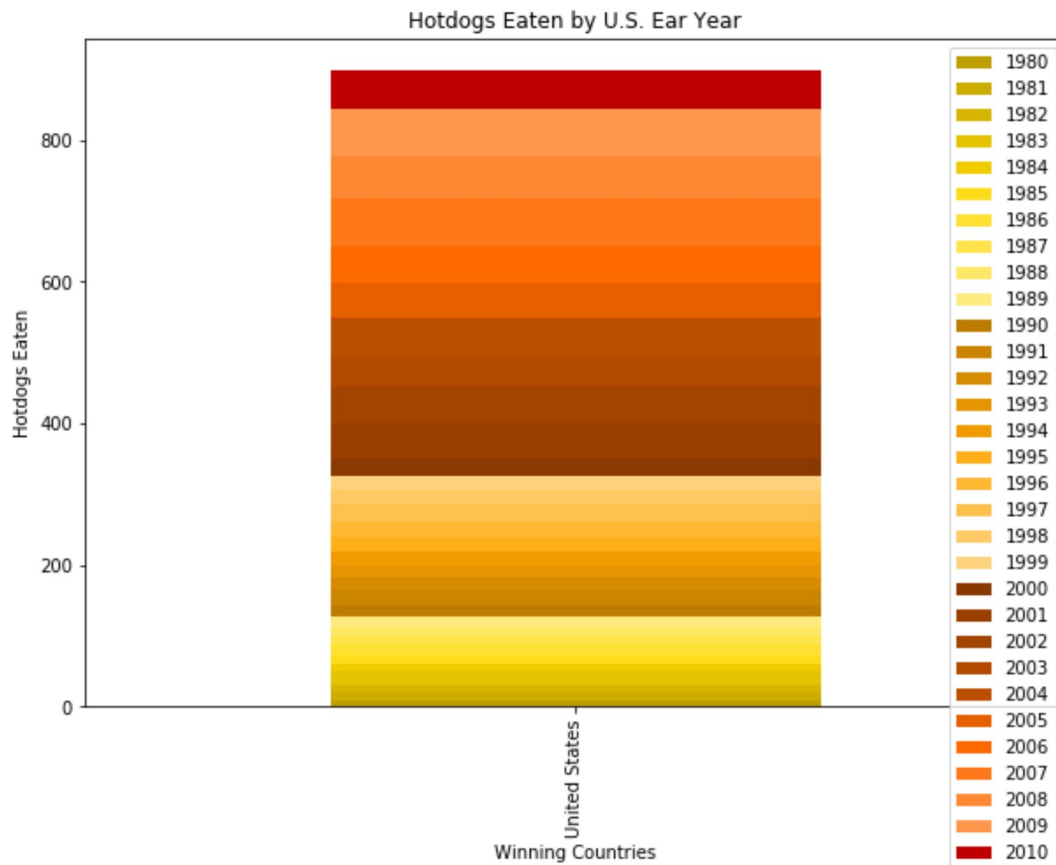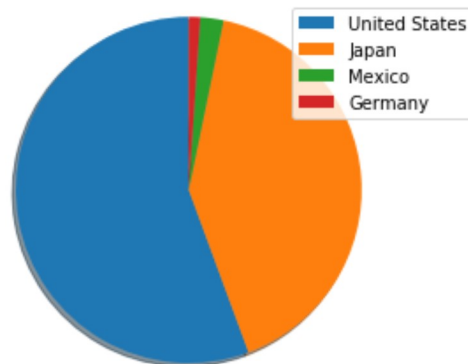
```
In [4]:  # Pie Chart

         # Determine how many hotdogs were eaten per country
         #print(hotdogs_df.groupby(['Country']).sum())

         labels = 'United States', 'Japan', 'Mexico', 'Germany'
         sizes = [499.85, 369.88, 19.50, 9.50]
         explode = (0.1, 0, 0, 0)

         plt.pie(sizes,shadow=True, startangle=90)
         plt.legend(labels, loc='best')
         plt.axis('equal')
         plt.title("Hotdogs eaten by Winning Countries (1980-2010)")
         plt.show()
```

In [5]:
```python
# Donut Chart

labels = 'United States', 'Japan', 'Mexico', 'Germany'
sizes = [499.85, 369.88, 19.50, 9.50]
explode = (0.1, 0, 0, 0)

plt.pie(sizes,shadow=True, startangle=90)
plt.legend(labels, loc='best')


centre_circle = plt.Circle((0,0),0.75,color='black', fc='white',linewidth=1.25)
fig = plt.gcf()
fig.gca().add_artist(centre_circle)

plt.axis('equal')
plt.title("Hotdogs eaten by Winning Countries (1980-2010)")
plt.show()
```
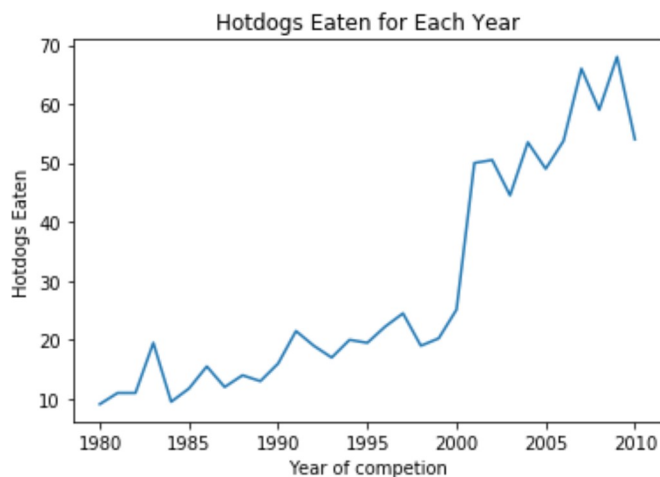

Hotdogs eaten by Winning Countries (1980-2010)
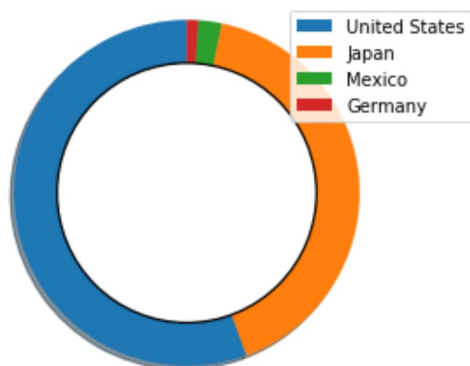
In [6]:
```python
# Line Chart

plt.plot(hotdogs_df['Year'], hotdogs_df['Dogs eaten'])
plt.xlabel('Year of competion')
plt.ylabel('Hotdogs Eaten')
plt.title('Hotdogs Eaten for Each Year')
plt.show()
```


Hotdogs Eaten for Each Year

# 1.2 Exercise Charts

Gabriel Valenzuela

6/8/2020

Charts

```
## Warning: package 'ggplot2' was built under R version 3.6.2
```

```
## Warning: package 'readxl' was built under R version 3.6.2
```
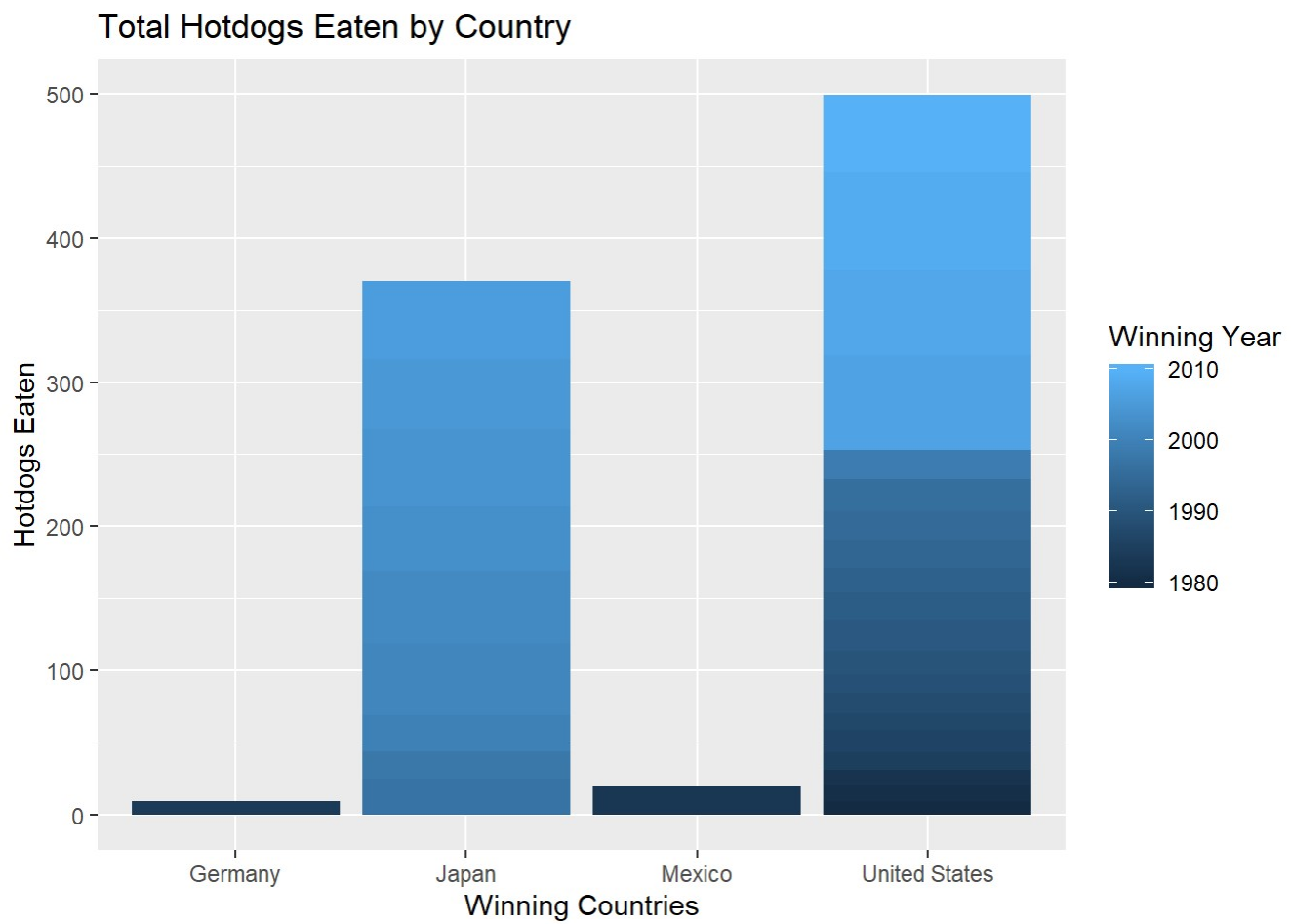
```
## # A tibble: 6 x 5
##    Year Winner                     `Dogs eaten` Country       `New record`
##   <dbl> <chr>                             <dbl> <chr>                <dbl>
## 1  1980 Paul Siederman & Joe Baldini        9.1 United States            0
## 2  1981 Thomas DeBerry                     11   United States            0
## 3  1982 Steven Abrams                      11   United States            0
## 4  1983 Luis Llamas                        19.5 Mexico                   0
## 5  1984 Birgit Felden                       9.5 Germany                  0
## 6  1985 Oscar Rodriguez                    11.8 United States            0
```
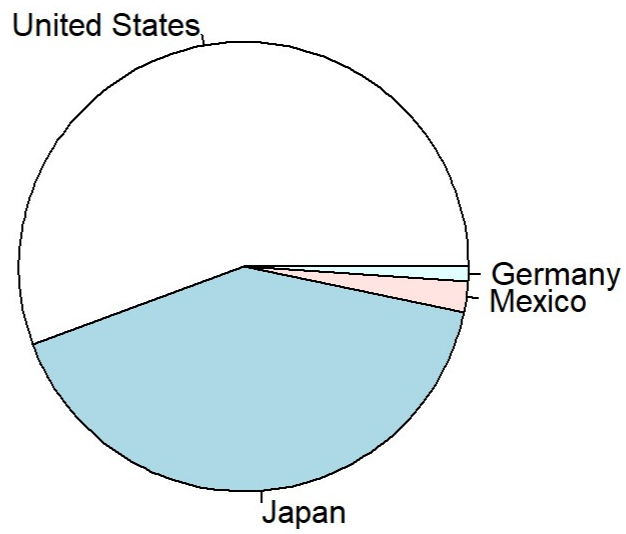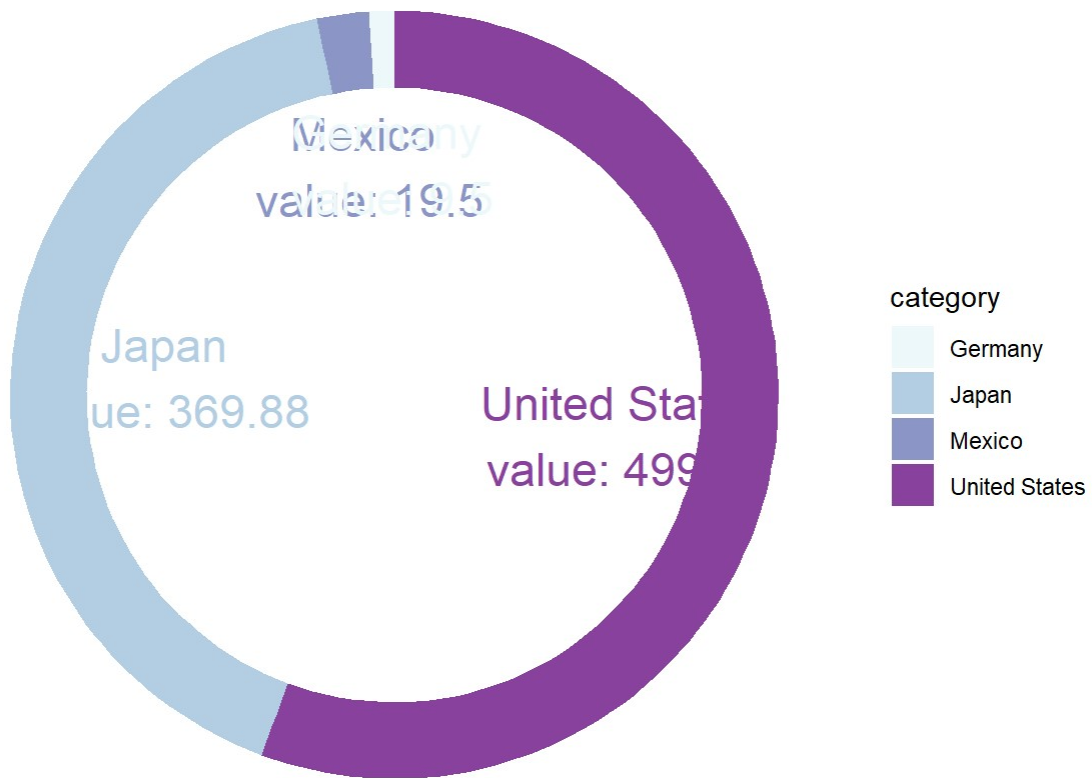
Bar Chart

Country Winners
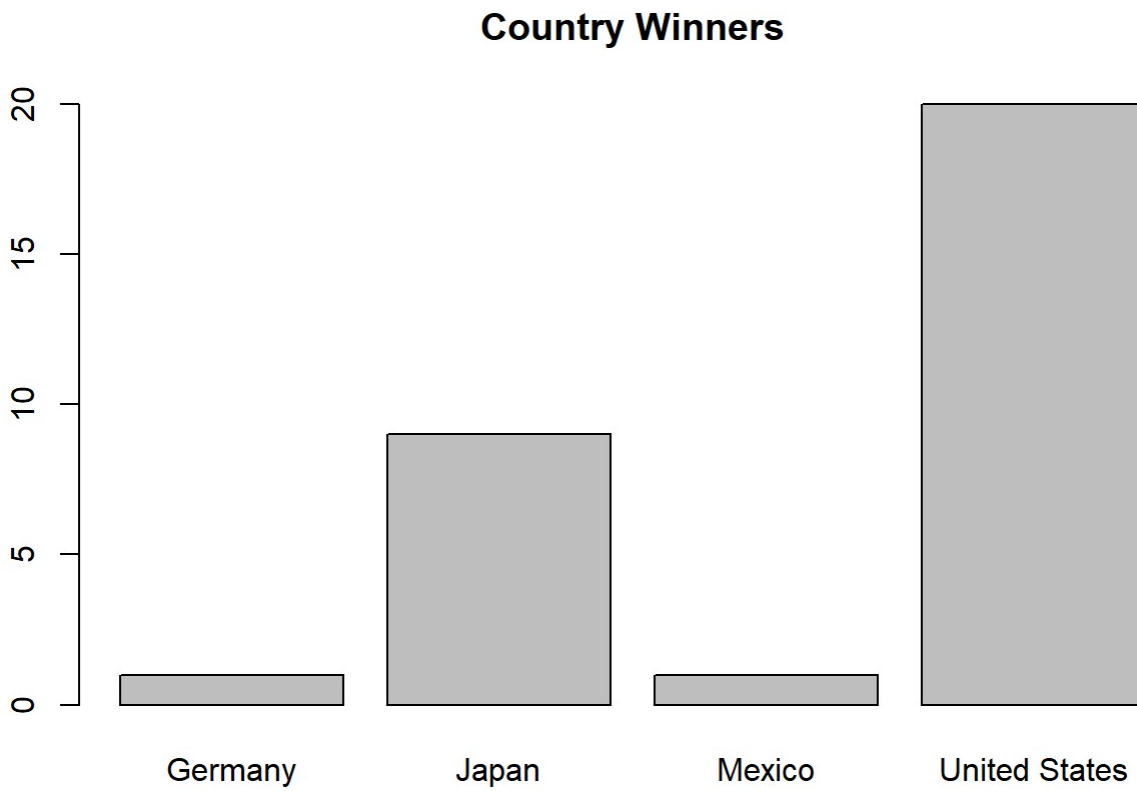
Stacked Bar Chart

Pie Chart

Total hotdogs eaten by winning countries

Donut Chart

Line Chart

Number of Hotdogs Eaten by Winner each Year