

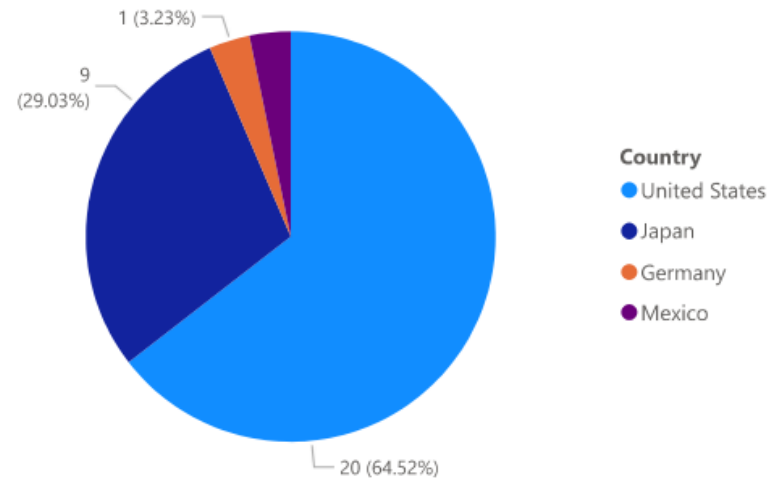
DSC640 – Michael Ersevum

Week 1 & 2

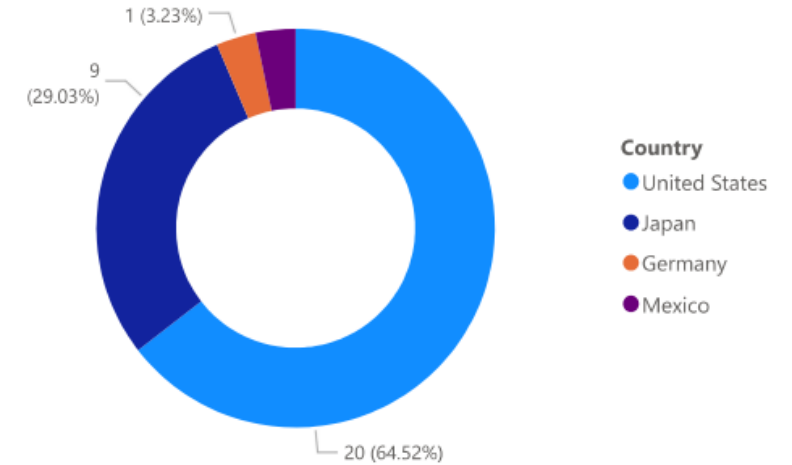
Code and Graphs

PowerBI Graphs

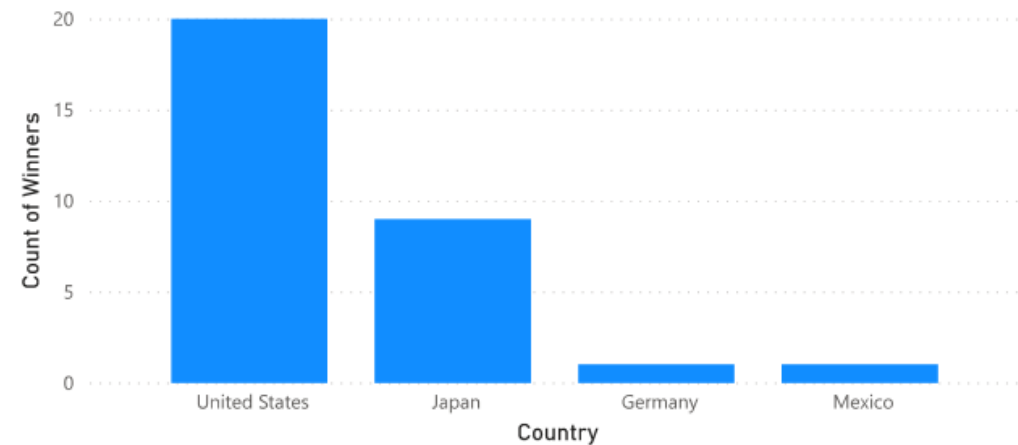
Count of Winners by Country



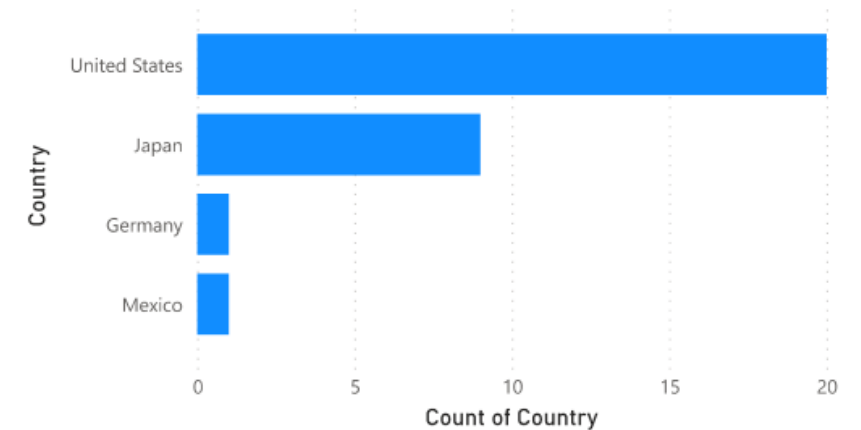
Count of Winners by Country



Count of Winners by Country



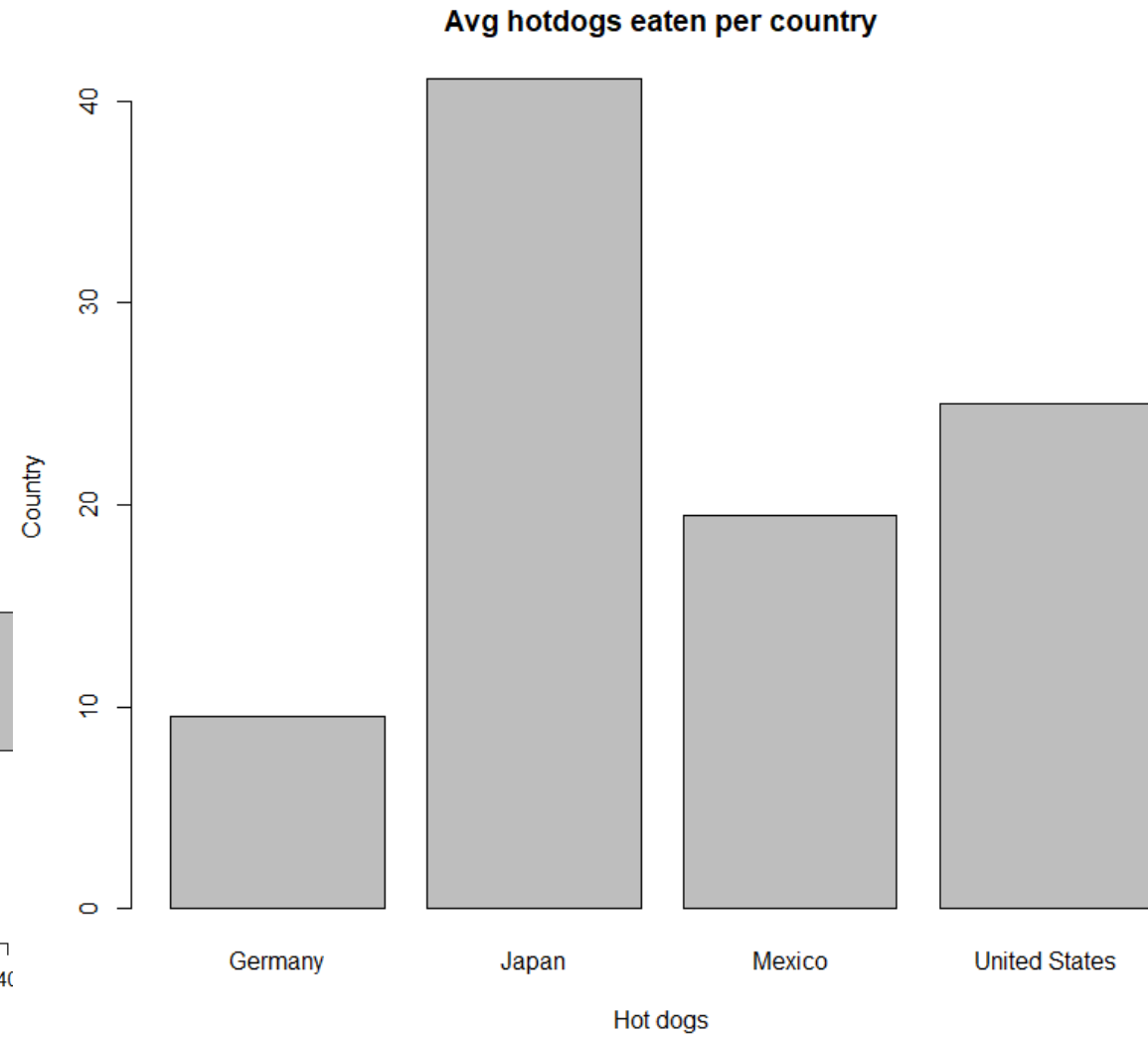
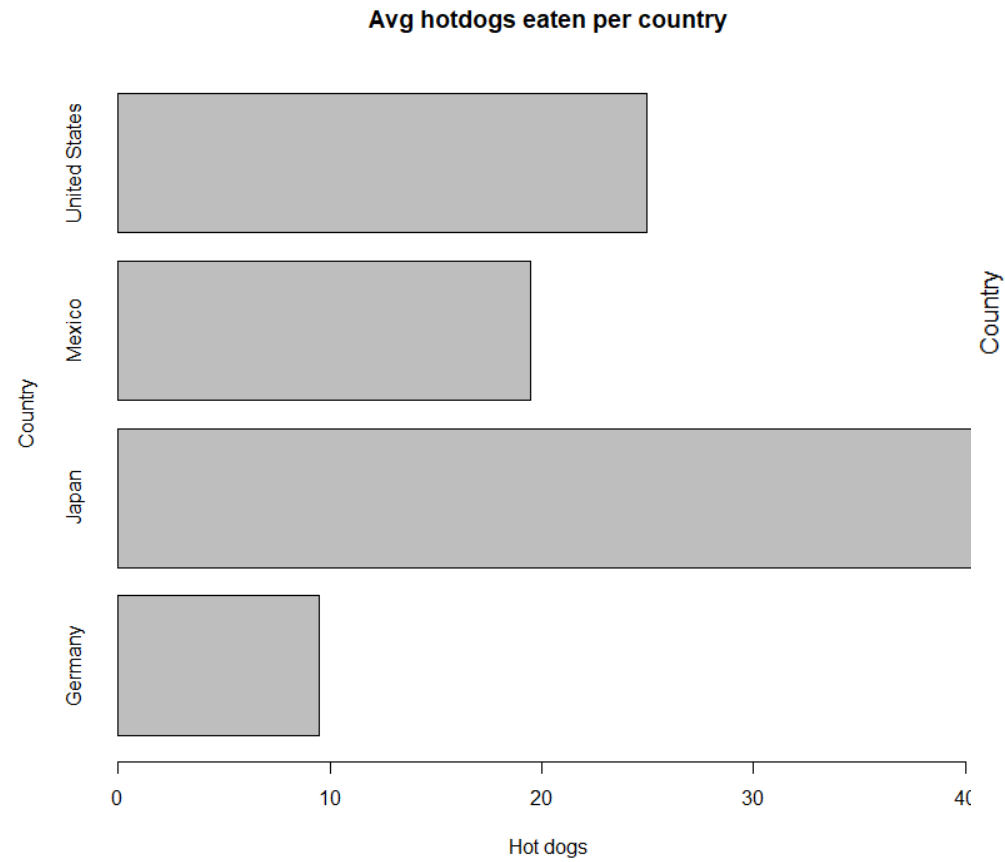
Count of Country by Country



R-Code and Graphs

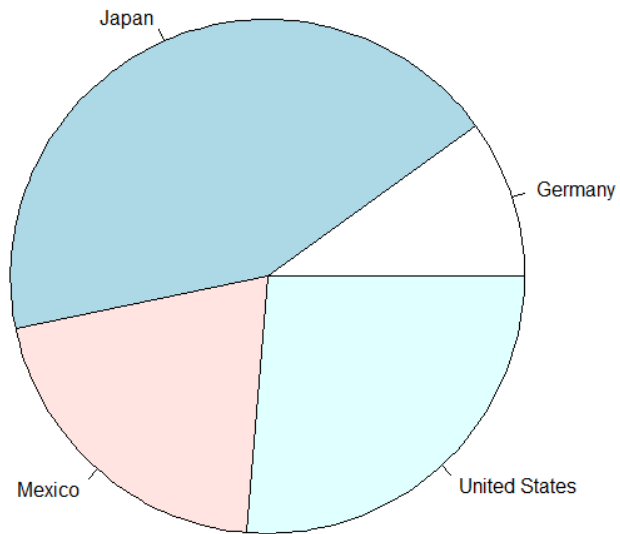
```
DSC640_M_ERSEVIM_WK1&2_R.R x
Source on Save
Run Source
1 'Michael Ersevrim - DSC640'
2 'week 1&2 assignment'
3
4 # Set wd to find and store files
5 setwd("C:/Users/Kate/Documents/Bellevue DS classes/DSC640")
6
7 #Needed to install some packages first
8 install.packages("ggplot2")
9 install.packages("readxl")
10 install.packages("lessR") #For Donut graph
11
12 # Calling libraries
13 library(ggplot2)
14 library(readxl)
15 library(lessR)
16
17 # Read in data
18 data <- read_excel("hotdog-contest-winners.xlsx")
19 print(data) #Test it worked right
20
21 #Aggregate data into new file 'b'
22 b <- aggregate(data$`Dogs eaten`, by=list(data$Country), FUN=mean)
23
24 # Horizontal bar plot, then vertical
25 barplot(b$x, main = 'Avg hotdogs eaten per country', axisnames=TRUE, xlab="Hot dogs", ylab="Country",
26         names = b$Group.1, horiz = TRUE)
27
28 barplot(b$x, main = 'Avg hotdogs eaten per country', axisnames=TRUE, xlab="Hot dogs", ylab="Country",
29         names = b$Group.1)
30
31 # Plot the pie chart with title
32 pie(b$x, b$Group.1, main = "Avg Hot dogs eaten by country")
33
34 # Donut chart - of Number of wins by country
35 PieChart(Country, data = data,
36          main = 'Proportion of wins by country')
37
38
39
29:28 (Top Level) R Script
Console Terminal x
```

R-Code and Graphs

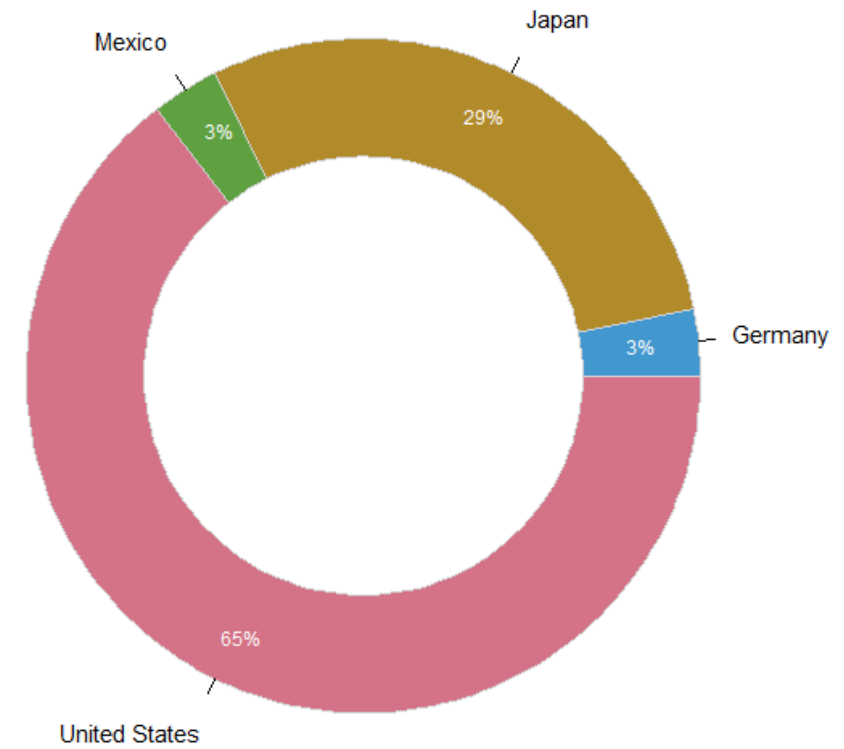


R-Code and Graphs

Avg Hot dogs eaten by country



Proportion of wins by country



Python - Code and Graphs

DSCC640 - Michael Ersevrim - Week 1&2 assignment

```
In [79]: # Call in Libraries  
import matplotlib.pyplot as plt  
import numpy as np  
import pandas as pd
```

```
In [80]: # create dataframe from excel file downloaded  
df = pd.read_excel('C:\\Users\\Kate\\Documents\\Bellevue DS classes\\DSC640\\hotdog-con  
df.head()
```

```
Out[80]:
```

	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 [81]: # Count the number of winners for each country  
df3 = df.groupby(['Country']).agg('count')
```

Python - Code and Graphs

In [82]:

```
df3
```

Out[82]:

	Year	Winner	Dogs eaten	New record
Country				
Germany	1	1	1	1
Japan	9	9	9	9
Mexico	1	1	1	1
United States	20	20	20	20

In [83]:

```
#experimenting  
df3.iloc[0:,0]
```

Out[83]:

```
Country  
Germany      1  
Japan        9  
Mexico       1  
United States 20  
Name: Year, dtype: int64
```

In [84]:

```
df3.info()
```

Python - Code and Graphs

```
<class 'pandas.core.frame.DataFrame'>  
Index: 4 entries, Germany to United States  
Data columns (total 4 columns):  
#   Column      Non-Null Count  Dtype  
---  ---  
0   Year        4 non-null      int64  
1   Winner       4 non-null      int64  
2   Dogs eaten   4 non-null      int64  
3   New record   4 non-null      int64  
dtypes: int64(4)  
memory usage: 160.0+ bytes
```

```
In [97]: #create the pie chart  
plt.figure(figsize=(4,4));  
x = df3['Winner']  
labels = ['Germany', 'Japan', 'Mexico', 'United States']  
plt.pie(x, labels=labels);  
plt.title('Winner count from county')  
plt.show
```

```
Out[97]: <function matplotlib.pyplot.show(close=None, block=None)>
```



Python - Code and Graphs

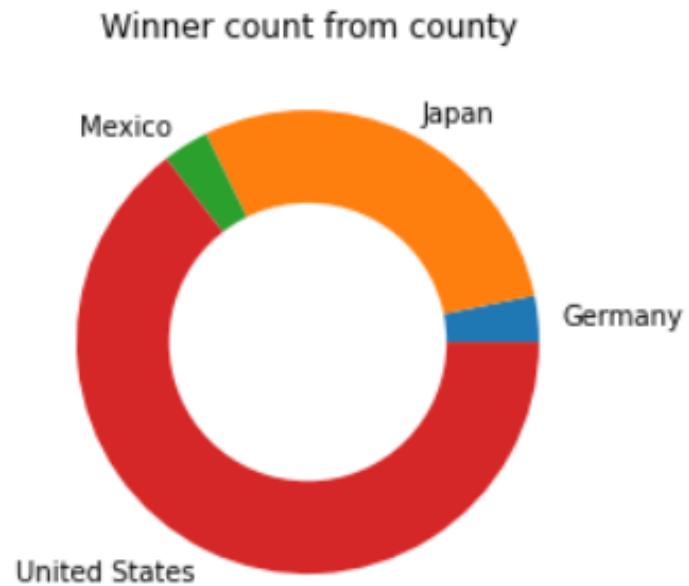
```
In [96]: #create donut graph by making a white circle in the middle
plt.figure(figsize=(4,4));
x = df3['Winner']
labels = ['Germany', 'Japan', 'Mexico', 'United States']
plt.pie(x, labels=labels);
hole = plt.Circle((0, 0), 0.60, fc='white')
fig = plt.gcf()

# Adding Circle in Pie chart
fig.gca().add_artist(hole)

# Adding Title of chart
plt.title('Winner count from county')
plt.show
```

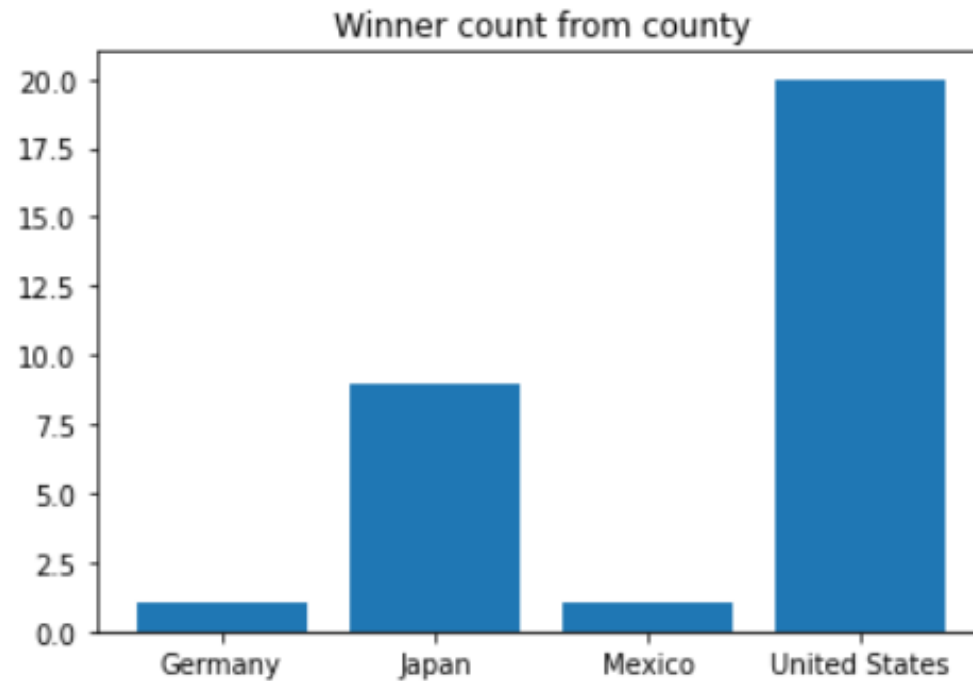
```
Out[96]: <function matplotlib.pyplot.show(close=None, block=None)>
```

Python - Code and Graphs



```
In [98]: #Making a bar graph
plt.bar(labels, x)
plt.title('Winner count from county')
plt.show()
```

Python - Code and Graphs



In [99]:

```
#making the horizontal bar graph  
plt.barh(labels, x)  
plt.title('Winner count from county')  
plt.show()
```

Python - Code and Graphs

