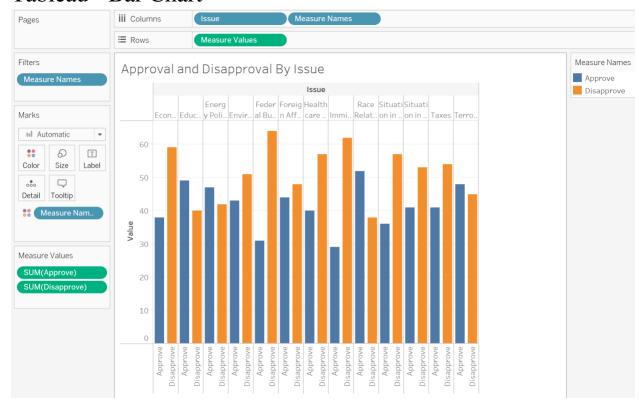
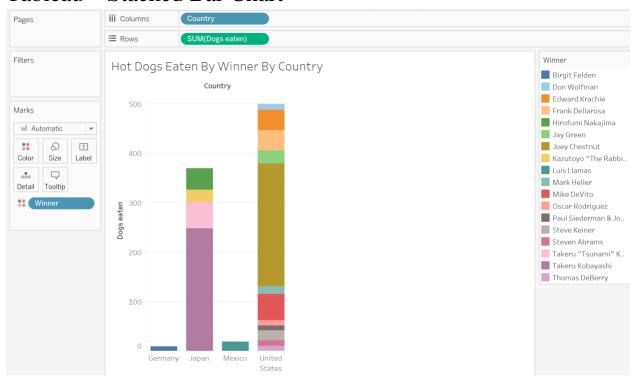
1.2 Exercise Charts

Tableau Charts

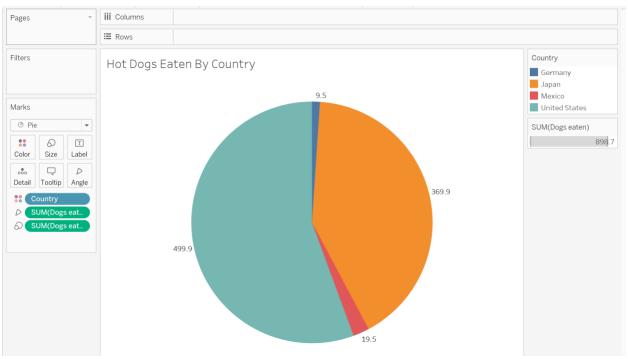
• Tableau - Bar Chart



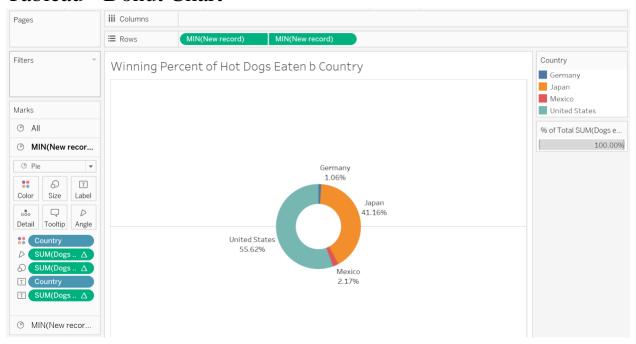
• Tableau – Stacked Bar Chart



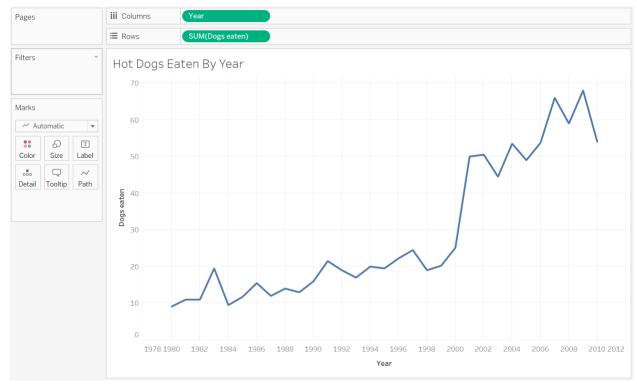
• Tableau - Pie Chart



• Tableau - Donut Chart



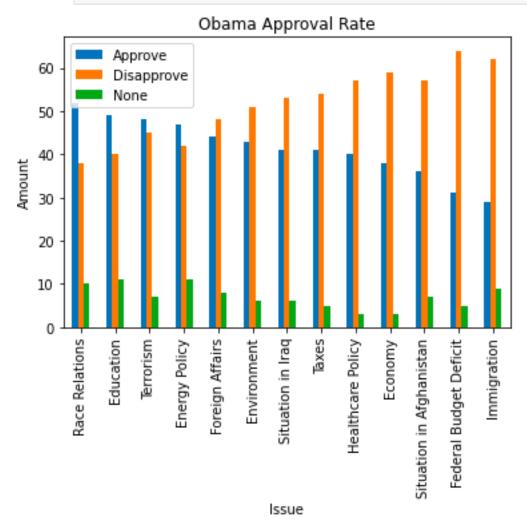
• Tableau - Line Chart



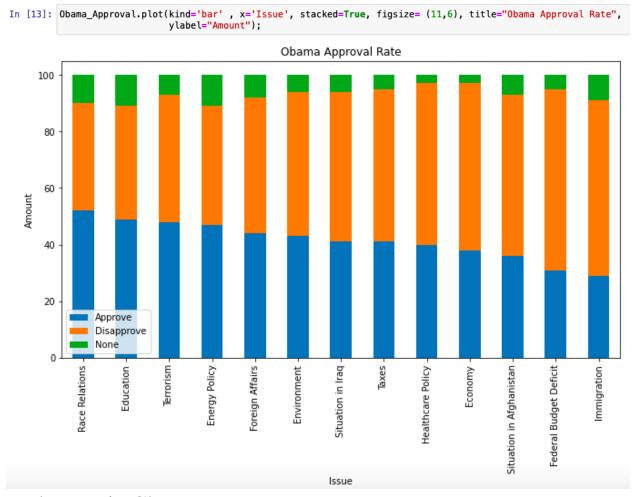
Python Charts

• Python - Bar Chart

In [11]: Obama_Approval.plot(kind='bar' , x='Issue', title="Obama Approval Rate", ylabel="Amount");

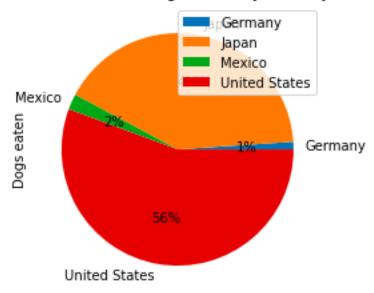


• Python - Stacked Bar Chart



• Python - Pie Chart

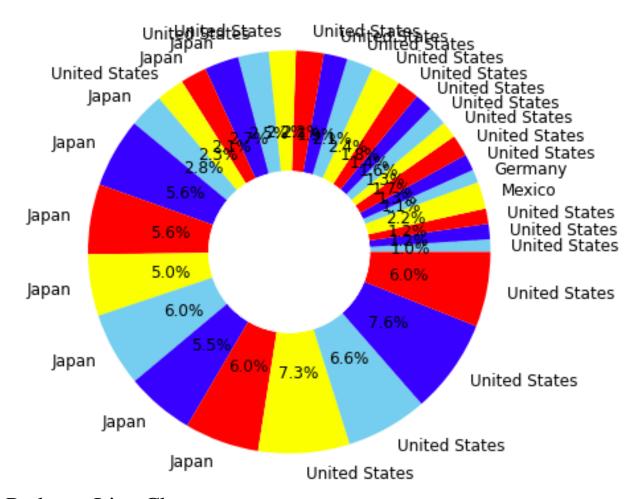
Percent of Hot Dogs Eaten by Country



 \bullet Python – Donut

```
Country = Update_Hotdog_Winner.Country
eaten = Update_Hotdog_Winner.Dogs_eaten
colours = ["skyblue", "blue", "red", "yellow"]
plt.figure(figsize=(7,7))
plt.pie(eaten, labels=Country, autopct='%1.1f%%', colors=colours)
central_circle = plt.Circle((0, 0), 0.4, color='white')
fig = plt.gcf()
fig.gca().add_artist(central_circle)
plt.rc('font', size=12)
plt.title("Hot Dogs Eaten by Country", fontsize=20)
plt.show()
```

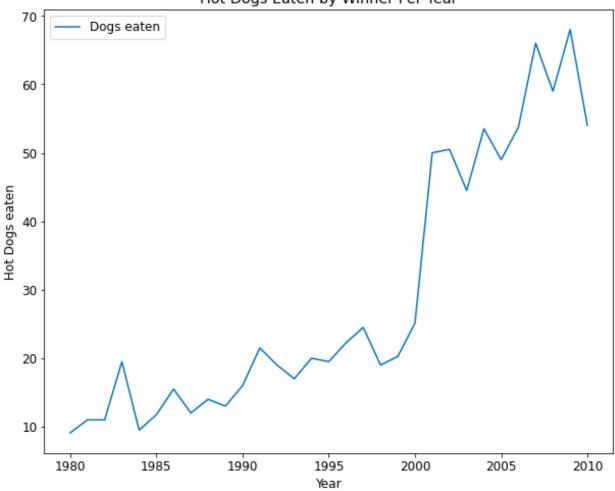
Hot Dogs Eaten by Country



• Python - Line Chart

```
In [44]: fig, ax = plt.subplots(figsize=(10,8))
Hotdog_Winner.plot.line(x='Year', y='Dogs eaten', ax=ax)
plt.ylabel("Hot Dogs eaten")
plt.title("Hot Dogs Eaten by Winner Per Year")
plt.show()
```

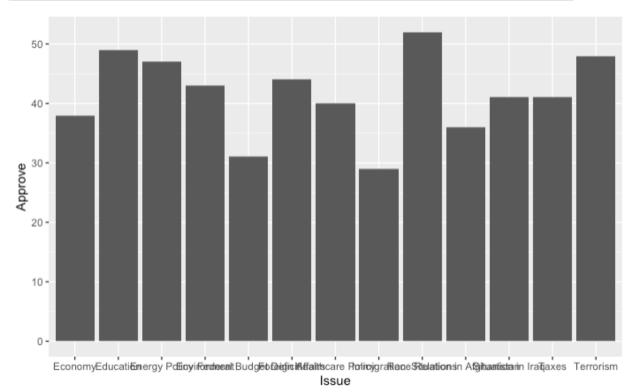
Hot Dogs Eaten by Winner Per Year



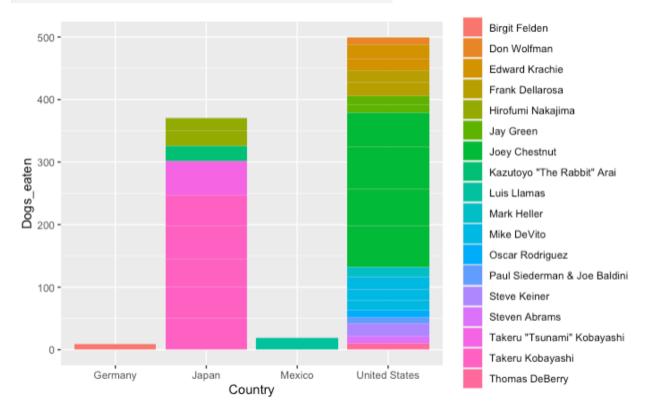
R Studios Charts

• R Studios - Bar Chart

```
'``{r Bar Chart, include=TRUE}
# Barplot
library(ggplot2)
ggplot(obama_approval_ratings, aes(x=Issue, y=Approve)) +
   geom_bar(stat = "identity")
```



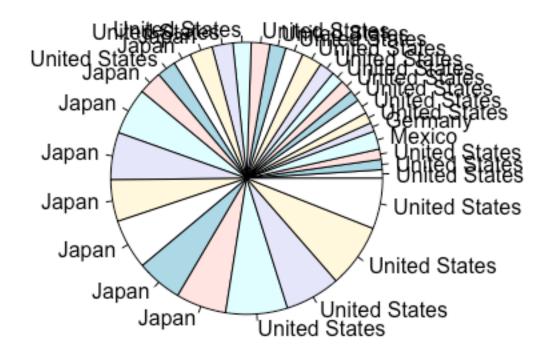
• R Studios - Stacked Bar Chart



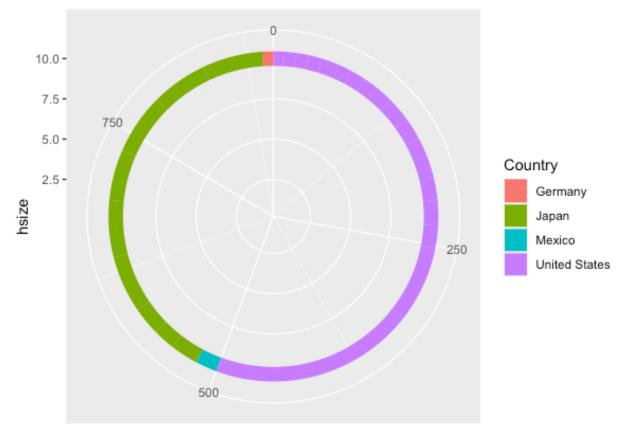
• R Studios - Pie Chart

```
'``{r Pie Chart, include=TRUE}
pie(hotdog_contest_winners$Dogs_eaten, labels =
    hotdog_contest_winners$Country,
    main="Pie Chart of Countries")
```

Pie Chart of Countries



• R Studios – Donut



Dogs_eaten

• R Studios - Line Chart

```
"" {r Line Chart, include=TRUE}
## Line Plot hot dogs per year
plot(hotdog_contest_winners$Year,
        hotdog_contest_winners$Dogs_eaten,
        type = "l",
        col = "lightblue", lwd = 5)
```

